THE DOUGLAS CO.
LIMITED
EDMONTON, ALTA.

Lard	1 – 0 (?)
Butter	0 – 3
Milk (Condensed)	0 – 2
" Malted	untouched.
Biscuit (Ramsay)	6 – 8
Chocolate	6 – 0.
Dehydro Vegs.	9 – 4
" Fruit	2 – 0
Dried fruit	1 – 0
" Raisins	untouched.
Beans	2 – 0
Peas	untouched
Pemmican	"
Soap.	

Feb. 1. 1914. Further period stores will last at rate of consumption during last four months:

	years	&	Months
Flour	2	–	4
Sugar (including lump.	1	–	4
Rice	10		
Rolled oats	2	–	4
Corn meal	2	–	0
Pea meal	5	–	0
Coffee.	0	–	5
Tea Loose	0	–	9.
" Tabloid	untouched		
Cocoa	2	–	6
Salt Beef	2	–	4
" Pork	?		
Bacon	0	–	5

June 10th 1914.

Provissions taken to Alaska.

taken from storehouse to

1 box cube sugar.
1 " dried fruit
1 can evap Potatoes.
2 pkg raisons
2 bars Yaptha soap
1 bar Ivory soap
5 lbs oatmeal (approx
2 " tea (approximate
5 " green peas.

W.O.N.

of Eastern
middle of
da through
to Point
Mc Pherson
Delta to
y; to Baillie
Langton Bay,
Cape Lyon;

History,
West,
A.

dress.

Feb. 1. 1914. Further period stories will last at rate

61/75

Field Notes.

From June 6, 1910, to December 13, 1910.

From Kangi an'nit, (East side of Eastern Estuary of Mackenzie, opposite the middle of Richard Island), N.W.T., Canada through East branch of Mackenzie Delta, to Point Separation, Peel River, Fort McPherson, through west branch of Mackenzie Delta, to Herschel Island, Yukon Territory; to Baillie Island, N.W.T., Franklin Bay, Langton Bay, Wilmot Horton River, Darnley Bay, Cape Lyon, back to Langton Bay.

Book VII.

Rudolph Martin Anderson.
American Museum of Natural History,
77th St. and Central Park West,
New York City, U.S.A.

If this book is lost, please forward to above address.

1910.

June 6. (Monday). Ka ngi an' nik, east side of eastern estuary of Mackenzie River about opposite the middle of Richard Island. N.W.T., Canada.
M.T. +30° F. +32°-1 a.m. +50°-10 a.m. N.W. wind Cloudy a.m. Clear p.m.
Cold, raw N.W. wind all night. Wind moderated during forenoon. afternoon bright and clear. Many large flocks of Geese (mostly Snow Geese Chen hyperborea nivalis and Black Brant Branta nigricans) were flying over from 2.30 to 4.30 a.m.; lesser flocks at intervals until 6.00 a.m. then very few until 8-9 p.m., when several flocks of Black Brant and Snow Geese passed over Sandspit. Jimmy killed one Black Brant and one ♀ Snow Goose. Kalchotat 4 Brant and 4 Snow Geese; Paulana 3 Snow Geese, Tomanna 3; other men a few also. A few Jaegers and Arctic Terns seen during the day.

Female Lesser Snow Goose killed today had a perfect hard-shelled egg in ovary, ready to deposit. A typical Goose egg, dirty white color. Measured 80 mm × 52 mm. Coll. No. Sex. 63 /

June 7. (Tuesday). Started out hunting about 1.00 p.m. (Mon.). but as it was
M.T. +24° +24-1 a.m. +45-12 m. Wind NE. Clear.
pretty cold, no game was flying. Returned about 1.00 a.m. Young ice on ponds, and snow crust frozen hard enough to bear me up in most places. Only one ♂ Willow Ptarmigan and two Geese seen. Tree Sparrows numerous, moving northward along beach. Snow Buntings (♂ and ♀) act as if nesting in great piles of drift timber along sandspit. Lapland Longspurs (Calcarius lapponicus) numerous, males singing most of the time, day and night. Sometimes they warble "twerdle-erdle-erdle-erdle (or a descending scale) from a little hummock, or flying up 20-30 ft. from ground soar down to earth, with a gentle fluttering of the spread wings, singing continuously while descending.

June 7. Tue. (Wed.) Returned to camp about 1:30 a.m., reloaded some shells etc. Geese began to fly again when sun had made a decided upward slant (NNE). about 3:00 a.m. and most of the hunters started out. They say the Geese rest and feed during the middle of night, and middle of day, flying most in Early morning and evening. More Black Brant today than anything else. Most of them pass off shore, heading N. from Anvagowik point towards Igyuk. Komaune and I carried some pieces of driftwood out on the ice about 500-600 yds off tip of sandspit, wading through water and slush half-knee or kneedeep where snow crust would not hold us up. Made a wooden seat on a little snow drift, piled up some snow-blocks in front, and waited. Several flocks of Black Brant came near (and many just out of range). Killed six Black Brant in about six hours. Komaune one; he went home very soon. Sipaujuk came out later and killed five Black Brant and one American White-fronted Goose (Anser albifrons gambeli). Shooting did not appear to be so good on the land, and two or three others came out on the ice in forenoon, killing a few Brant. Jimmy killed two Black Brant and one Snow Goose on the land.

Saw only two pair of Am. White-fronted Geese today, one pair trailing a flock of Black Brant. Occasionally the Black Brant were seen in pairs. On two occasions when a Brant was dropped from a flock, its mate would immediately leave the flock and circle about the dead bird, calling. The Brant are difficult to call back, but the natives can usually attract the attention of passing White-fronted Geese by imitating the call, and many a goose wheels about to investigate.

Saw a few small flocks of Snow Geese, two Whistling

June 7. (Tues.) [probably X. subinit]

Swans, a few Arctic Terns, Glaucous Gulls, Bonaparte's Gulls. While out on the ice many Pectoral Sandpipers (Tringa maculata) flew over, within a few feet of my blind, singly, in two's and three's, keeping within 3-4 ft. of ice. Black Brant usually kept within 30 ft. of ice while travelling. Several Lapland Longspurs alighted on ice within ten feet of my blind, the ♂ birds continually pursuing the ♀s, which kept hopping coquettishly out of reach.

Pikto Kanna shot a ♀ ~~Ring-billed~~ Short-billed Gull (Larus ~~delawarensis~~ brachyrhynchus), bill greenish yellow, dusky at tip; feet greenish yellow; iris brown; eyelids orange. L. 17¼ – W. 13¼ – T. 5⅛ – B. 1⅝ #404.

Tautuna killed an Am. Merganser. Good in evening. Ogungiya set the first fish-net (Kob'yak) of season today, and caught three fish. Jimmy immediately set two nets, cutting a line of holes through the ice about 4-5 feet apart. A line is let down into first hole, pulled up through 2nd hole by means of a long curved pole with grappling hook on end. When line is passed underneath the ice from first hole to last, the net, with floats on one side and sinkers on the other side, is pulled underneath the ice. This method of netting fish is said to be practiced here only in the late spring. Up the MacKenzie (Athabasca Lake, etc.) the Indians set nets under the ice all winter, sometimes under ice seven feet thick (Pierre Mercredi, H.B.C. trader, Ft. Chippewyan). Took two pictures of operation today.

#167. Setting nets underneath ice – Jimmy, Sipaijuk, Kublualuk. 11-1/100 B.S. 4 p.m.

#168. " " " " do. 11-1/50 - B.S. 4 p.m.

#169. Boys. Pikto Kanna and Kiutaranna (with tonsured head (the old-fashioned style of Kogmollik hair cut. 11-1/50 - B.S. 4 p.m.

Very few Geese & Brant were flying from 10 a.m. to 6 p.m. In the evening a few flocks of Black Brant passed over. Jaegers and old squaws seen and heard occasionally.

Northern Phalarope — Kai yak ro yo ō' lok
Red Phalarope — Kai yak ro yok' pak.

June 8. (Wed.). Turned in early last night, and had the first good sleep for ten days. Have been getting seldom more than 3-4 hrs. sleep out of 24, and have been prone to nap on ice, or anywhere in a Husky camp. there are no regular hours. Somebody is astir all the time, and the children appear never to sleep, at least, they are playing and yelling outside at all hours. Jimmy's 10-11 year-old boy will run about for 20-36 hrs. then slip into a corner of the tent, crawl under some blankets, and, if undisturbed, sleep 12-15 hours without waking. However, like everybody else here, I stay up until the desire for sleep is so overpowering that no amount of noise can disturb my slumber. The continuous daylight (midnight sun) plays havoc with daily routine habits. It seems unnatural to go to bed in broad daylight, and one day merges into another almost before we know it.

M. T. +31°
+45 at 7 a.m.
Wind NE.
Clear before 8 a.m.

Tautuna brought in 3 Black-throated and one Red-throated Loon, and 5 or 6 Black Brant; Inuitkak one Swan; Sithin two Swans (Olor columbianus) (Nog yuk); and several Blk. Brant and Old-squaws.

Went down the coast for two or three hours during the forenoon but very little game was flying. Frequently Loons (Blk. Throated and Red-throated) passed over, singly, or in pairs, heading straight along the coast. Flight of Loons is rapid and regular. Occasional stray Arctic Terns, Jaegers, Pomarine Jaegers; many Semipalmated Sandpipers, Pectoral Sandpipers, first Red Phalaropes of the season. Several Northern Phalaropes. Lapland Longspurs appearing today. #406. Stercorarius pomarinus ♀: Flesh skin cast from Pomarine Jaeger, Nabloidlut and I, with nine dogs hauled my Whaleboat on two sleds to Avingaroik, starting about 10 a.m. Snow on ice has mostly melted down into slush, a few drifts still remaining. In places the snow-water has run

June 8. down through cracks, so that travelling is much better than a week ago. Snow (except large drifts) has mostly disappeared from the land. Nothing but a few old-squaws and Black Brant seen on lake up. A note was received this morning from Akkanyak, stating that he had taken Snow Goose's eggs a day or two before at Kittigaryuit; also that the Anderson branch of Mackenzie had broken out, a little beyond Kittigaryuit. Shot # 403. ♀ Western Savanna Sparrow (Short, shag & tail fox). Passerculus sandwichensis alaudinus

June 9. (Thurs) Kubloalik and the boy Pittokamna took sled back to Kangiannik at once (about midnight, while Sipaiyuk and I remained at Annagswit to shoot. Sipaiyuk shot a Black-throated Loon which flew over the cache — a fine, fat bird which we at once boiled for breakfast; fine palatable but skin very tough. The waterfowl began to fly about 2 a.m. and passed over in great numbers until about 10 a.m. when the number diminished. Birds principally Old-squaws (Mal ik ka lik) and Black Brant (Nig lik ka lik). Most of the flocks passed about 300 yds. My shore following a line of water on top of the ice. Carried pieces of wood out to set upon, and piled up a little snow in front. Killed three Black Brant here and Sipaiyuk eight; six Old-squaws. Three Whistling Swans alighted on ice about 300 yds in front of our blinds. Went back to cache for rifle, to stalk them, but before was in sight behind the drift-timber on shore, the Swans flew over Sipaiyuk and he killed one with a load of No 6 shot and wounding another with No 2's. Shot a ♀ ~~Ring-billed Duck~~ Scaup Duck (~~Marila marila~~ affinis) from a bunch of four which flew over; ovary still small. ~~Ring-necked Duck~~ (as well as Scaup Duck are called Kak hiu tok.) Saw three ♂ White-winged Scoters

June 9. pass by, just out of range. Saw a ♂ Rock Ptarmigan (Lat 64° 42' to 64° 50') on a little knoll near Anaguyuit. Shot him and going to pick up game, found his mate also dead, a foot or two away. Feathers of throat stained with berry juice. Female had a full-sized soft-shelled egg in oviduct, yolk and albumen complete; bird in nearly full brown plumage. ♂ bird had a few streaky brown feathers on crown, and a very few (two or three) on scapulars. Skinned both birds. Saw a few ♂ Willow Ptarmigan, and often heard them calling. Swans were heard uttering their resonant horn-like notes almost incessantly, at a distance inland, from midnight until 8-9 a.m.

One flock of Snow Geese (about 12-15) and another flock of six passed northward over the land. Many Parasitic, Long-tailed, and Pomarine Jaegers seen. Their habits, flight, etc., are very Hawk-like. A pair of Pomarine Jaegers hovered for some time over some Black Brant which we had set up about 30 yds from our blinds on decoys. They finally alighted near the Brant for a short time, but did not offer to touch them. Many Black-throated Loons and Red-throated Loons flying northward today, singly or in pairs, seldom seen to alight. Met a few Am. White-fronted Geese seen today; two Short-Eared Owls, Northern Phalaropes, Black-bellied Plovers, Pintails, Lark Sparrows, Redpolls, Lapland Longspurs, Snow Buntings.

Remained on ice until about 11 a.m. then went back to cache, boiled two Black Brant, and ate them in toto (two men). Felt pretty tired, as we had been up all night and the day before, and as sun was hot, hung up our water boots to dry, lay down on some drift wood and slept four or five hours in the

June 9. afternoon before returning to Kangiannik. Iviktuna moved camp to Annagovik this evening. Taulana killed one Swan today. Jimmy caught four Connies and one Anarhluk in net today and Komanna five Connies.

Skinned: 407. ♀ ~~Clythia cotoris~~ Larus marila. (Kak'hlutok). Ovaries small.
408. ♂ Lagopus rupestris (Nikshak tiriaktok).
409. ♀ " "
410 ♀? Stercorarius pomarinus (Skua) (pale) recd from Pauniyuk

Great numbers of Old-squaws or Long-tailed Ducks (Harelda hyemalis) were going northward all day usually ♂'s and ♀'s in separate flocks, flying very swiftly. A few occasionally seen in little ponds. Three Swans seen near Kangiannik in evening.

June 10 (Fri.) M.T. +32° +33° at 1½ a.m. Very light NE wind Clear. Hot. Jimmy, Sipaiyuk and Kublolut started about midnight to haul Jimmy's whaleboat to Annagovik. Hauling was good, with plenty of dogs, and they took the boat as far as Nellatowisk. Many Loons passing over Kangiannik today, a few small flocks of Black Brant, and Snow Goose in fore noon. Hunters reported that many flocks of Brants passed northward over the ice far out from shore. Some spots of open water in small river here today, and many holes in the ice. Ice in river is becoming very rotten.

Jimmy and Sipaiyuk came back in evening with sled. Sipaiyuk shot nine Black Brant today, Jimmy two or three one American Merganser, many Old-squaws. Reported that Iviktuna had killed 18 Black Brant at Annagovik this morning. Worked all day cleaning greasy skins.

June 11 (Sat.) M.T. +32. +33 at 3 a.m. +35 at 3 p.m. Cloud NW. Clear. Many fish caught (mixed) at edge of hole in creek this morning early — Kalikotak 10, Oyungunya 9, Komanna 5, &c. None caught after tide made water muddy. Jimmy caught 7 in p.m.

June 11. (Sat.) Pitkiaina shot a ♂ Lemming (Dicrostonyx) "Kil lang mo tak" on East side of creek, with bow and arrow. Had skin. Lemming 31352
412. ♂ Dicrostonyx sp. L. 139 mm. T. 7. ♯ F. 9.
♂ Pectoral Sandpipers have been uttering their peculiar booming note for two or three days. Two Snow Geese flew over Cabin low down, but I missed the shot. A few pair of Black Brant also came over, and occasional Loons. Three Swans circled above the sandspit in the evening.

Jens Spriyut yesterday 2–3 lbs. shot, 50 gun caps, ½ lb tea, mining ½ lb. tea (and ½ lb. ? few days ago).

Snow Buntings are singing around camp all day almost as tame and familiar as English Sparrows, hopping about on the drift wood, and often alighting on tents. One made a great effort to alight on top of my round waterproof silk tent during the night, but could get no foothold, and kept continually slipping down, scratching furiously at the cloth. Everybody staying for tea (and tea) in tent in evening.

June 12 (Sun.) M.T. +29. +43 at 12 m. Cloudy. Wind NE. Three Swans alighted in patch of open water in lagoon but flew away before they could be successfully stalked. A few pair of Black Brant seen. Pectoral Sandpipers heard in morning. Light sprinkle of rain in afternoon, gradually increasing to a steady drizzle, all afternoon and evening at times coming down quite heavily in large drops. The dome-shaped Husky tents all leaking badly. My silk tent (bot from Abercrombie & Fitch Co. N.Y.) sheds water perfectly. Snow going very fast. A few fish caught this morning. ♀ Willow Ptarmigan shot today with a hard-shelled, fully pigment-marked egg in oviduct.

June 13 (Mon.) M.T. +33. +45 at 10 am. Cloudy. Fog in evening. Wind NE. Decided to go with Kalikotak to Tuktuyaktok, to look after Pikalo's stuff there, and also look for eggs. Jiming moved camp, with remainder of his goods.

June 13. to Nellakwiatk today. He also took remainder of my goods, one sled load, Kublodluk looking after it. As they used Kowanna's dogs and sled for my goods, gave K. 3 plugs Nt, ½ lb. Bk. 1 pkg matches. Started about noon with sled and four dogs (Kayak on sled) — Kalikotak, his wife and baby, and Muk Kalluk. Inutikak and wife Nowchak also followed with another sled. Ice solid, a few holes at creek mouth near Kangiannik. Outside, soft, slushy snow in most places, remains of drift, many pools, one-half to knee deep, and a few stretches of ice from which snow had melted. The bare ice made very good travelling, but one hour on it cuts through dogs' feet, causing them to bleed, necessitating the use of skin dog-boots or cloth wrappings often renewed. Surface of ice is mass of sharp, prismatic, needle-like points. These ice-needles or prisms seem to be formed by melting snow-water above and sea-water below, the interstices becoming larger, until the mass finally becomes rotten and disintegrates.

At entrance to bay or lagoon near Ibyuk (the big point) three Whistling Swans came by, and were called so that they flew over us, about 30 yds high. Inutikak, Muk-Kalluk and myself each dropped one. The Swans have lost practically all their fat now, while three weeks ago they were very fat. As we had started out without any provisions (an oversight), and a light breakfast, a stop was made to cook our Swan.

Crossed a low ridge, and went about ¾ mile to a large shallow lake, or series of ponds, connected by narrow channels and dotted with a great many small islands, from moss hummocks 2 ft in diameter to low flat, grassy islands, 10 yds or more long. Numerous Black Brant (Branta nigricans) were circling about singly, in pairs and small

June 13. flocks. Our delay for cooping had proved costly. Taulana and Ulim had put a Kayak on sled and left Kangiamut shortly after we did made a short cut, and gathered up most of the Brants' eggs at the "rookery" — having taken perhaps 300 eggs and killed down Brant.

Our party of three got about fifty Black Brants' eggs, and ten Glaucus Gulls' eggs. Few, if any sets were completed a few nests contained but one egg, some two, usually three and occasionally four. Many broken egg-shells were found on nests, probably the work of Glaucus gulls several pairs of which were nesting here. All eggs taken today were perfectly fresh (unincubated). Took one typical nest, with three eggs. (Set 64/3), from nest on a little moss island about 3 ft. in diameter, vertical sides rising up from ice-bottom about 2 ft. below surface of water; top of island level, about 8-12 inches above water. Nest a slight hollow lined with a few grasses, and a thickly matted mass of gray down pellets. (Nests with no egg seldom had any down lining, while nests with two eggs had a little down). The nest lining was usually pulled over the eggs, wholly or partially concealing them.

I found but one nest with four eggs (Set 65/4), on a little island about 4 × 8 feet. Kalikoluk found a nest with four eggs also, and two Glaucus Gulls' nests, three eggs each. I found two nests of Larus Glaucus ("Nau-yak"), on little islands, similar to Brant's nests, but built up higher, a mass of wet grass, weeds, and moss pulled up to a height of 18 inches above ground, lined with a few feathers. Sets 66/2, 67/2, fresh. The parent birds with five or six companions hovered overhead screaming hoarsely, but seldom coming within gunshot. Shot two Gulls 3 and 4. Skinned 3 Larus glaucus * 413. * 414.

One pair of Snow Geese flew over the Brant nesting place,

June 13. but did not alight. Eight Black Brant were shot by the Eskimos at nesting place and I dropped one which flew over our camp. The Brant are still very fat, having thick masses of fat, under skin around breast and thighs, and great masses on lower abdomen and lining pelvis. One ♂ and two ♀ Willow Ptarmigan shot — ♂ with back spirally spotted with brown; females in full summer plumage. A pair of Parasitic Jaegers seen mating. Found first Longspur nest of season, flushing ♀ from a little hummock on low ground near "Brant Lake"; two eggs. Another nest was found on a level spot on hillside about 20 feet from driftwood pile on coast. Kalikotak had walked over the ground and picked out a tent site, and I was kicking off some little hummocks when a ♀ Longspur flew up from a nest and four eggs at my feet. The Eskimos came up immediately when I called attention to the nest, and "Mrs. K." pounced upon the little eggs and dropped them into the pot where a mess of Brant and Gull eggs were boiling.

Cloudy weather all day. Thick fog at intervals from 8–9 p.m. until midnight. Misty rain about midnight, freezing into a slight sleety coat on willow shrubs and grass. Our feet and clothes were wet, and we had no stove for tent. Spent a cold uncomfortable night in tent, sleeping little as I had no blanket. Kept my feet warm in a spare shirt, while the women partially dried all our footgear at an open fire outside. Ak-tyi-ot (red) and paun-at (black) berries very abundant here. The women had picked a pan full for our supper — very agreeable variation from our straight meat diet.

June 14 (Tues). Warmer. Light N Wind. Hazy sunshine AM. Clouding p.m. Hazy sunshine when we got up at 11 a.m. Sunshine bright and warm for a little while about noon. Cloudy afternoon. Misty rain in evening, freezing into a little sleet.

June 14 (Tues) A pair of Snow Geese sighted in a pond near coast at Ayuk, with a few Black Brant. Kalikotak killed one Brant.
Went to Tuktuyaktok in afternoon — exceedingly difficult travelling, through slushy snow and water most of the way, with numerous pools, sometimes knee-deep. The ice has not cracked sufficiently to float up, or let the water run down below. Considerable water in long leads along shore from (cut bank) to Tuktuyaktok. Could not take sled directly to one old cache (Taulana's house) but went outside, camping some distance beyond Kalikotak and I went back and took down old square rack (still standing pretty firmly), and built another rack with three tripods [sketch] put Pikalo's and Panniyaktuk's stuff on rack, covering it with tent, piece of canvas and old sail, securely lashed down. Also lifted up end of whaleboat, and drained off a little water which had remained in bottom at one end. Kalikotak took four of Pikalo's foxskins, leaving three on the cache, out of seven which had been purchased from natives for Pikalo's tobacco. No fish caught at Tuktuyaktok tonight, K. said because tide was coming in and fish did not bite when water was rising. Saw 8 Hornes Luk at Tuktuyaktok, and two or three ♂ Rock Ptarmigan. Flushed one ♂ which uttered the harsh Kr-r-r-k call while soaring away. Passed another cold, disagreeable night.

June 15 (Wed.) In the morning a pair of Snow Buntings were around camp. Wind SW. most of the time, the ♂ singing, and the ♀ busily picking up feathers around our camp, and carrying them to build a nest there. Kalikotak shot a ♂ Rock Ptarmigan, white plumage, with a few brown feathers at crown and nape. Six Black Brant flew over.
Went to Tapkak this morning, crossing over land to the deep bay inside of Tuktuyaktok point; where there was no

June 15. water on ice, although snow had melted off. Considerable snow on ice of bay between Tuktuyaktok and Tapkak, but much better travelling than yesterday. Much water along shore around Tapkak, but we finally got sled to land at bottom of deep bay behind sandspit at Tapkak (conspicuous large pingok just N of here. Numerous Red-throated and Black-throated Loons seen flying, and in water this morning. Several large flocks of Black Brants seen flying about but the land at Tapkak, and their clamor heard continuously.

Large numbers of Black Brant were seen in a large pond or series of ponds near coast, connecting with bay by channel. Many little islands, but no willows, although Kalikotak explored them with a Kayak. Passed around north end of this lake, and across a low series of hills soft, mossy hummocky ground, but no open water except tiny pools, until we reached a large open lake, bordered by rather high hills, about 1½ miles inland; outlet by a small creek at SW end. Several Rock Ptarmigan seen "on guard" on little hummocks of high land, and numbers of Willow Ptarmigan in willow thickets around lake. Pintail Ducks numerous, in pairs and bunches of 4 - 5 or 6. One Swan swimming along shore of reedy island, which we were unable to reach. Crossed creek, narrow and very deep, flushing a pair of Mergansers in a little bend of creek, nearly hidden by dense willow thickets 4-5 feet high. Numbers of Northern Phalaropes and Semipalmated Sandpipers on lake shores. Waded out to a low sandy, stony island about 3 acres in extent. Water 2½ - 3 ft. deep over ice on bottom. Fired at a Brant going over and about 150 Black Brant rose at once from a low gravelly sandspit on end of island. Nearly all the Brants nests were near point of island, and the Pintail

June 15. beat me to the right place, and had piled up about sixty Brants' eggs. I took two set of three (both unfortunately broken) and photographed nests and eggs in situ.

170. ♂. Nest of Branta nigricans. 4/3 8 - 1/100 - B.S. 4 p.m. (Snap shot - Tripod broken.

171. ♀2 " " " " 4/3 8 - 1/50 - B.S. 6 p.m.

Imbitak had about fifty eggs, and Mukkallik ten. Found one nest with one egg, and one nest with two eggs. Imbitak one with four. The great majority of nests contained three eggs, all unincubated. Most nests a mere hollow in bare stony ground, a few yards from water's edge, lined with down. A few nests were partially sheltered in sparse bunches of coarse grass. The Brant were very wild, and kept flying about, usually well out of gun-shot, sometimes swimming in water outside, and occasionally going over within range. Kalekobat shot 3, Imbitak 2, Mukkallik 1, and I three. A pair of Snow Geese flew over, but did not stop. A Marsh Hawk (Circus hudsonicus) hovered above the island for two or three hours. Swamp Sparrows numerous on island, and a few Lapland Longspurs. Arctic Terns were fairly common and noisy, but no eggs were yet deposited. Two or four Sabrie Gulls (Xema sabinii) were about at intervals, also screaming loudly. Shot one ♀ out of bunch of four walking in shoal water near shore. Eggs in ovary small, but excessively fat. #46 ♀ Xema Sabinii.

As we came out into willow thicket on mainland a Ptarmigan (Willow) was shot as she sneaked away through the bush. The bird's belly was almost bare of feathers and a full-sized soft-shelled egg (white unpigmented) in ovary. Diligent search failed to reveal the nest. 3 Willow Ptarmigan seen in near vicinity. A pair of Red-breasted Mergansers flew up from little creek, soon alighting again. Mukkallik killed the ♂ as he flew up. ♀ dived several times and soon flew

June 15- up some distance down stream. This species, as well as American Merganser, is called "Pi" Kalkolak shot a Merganser in creek. Coming back I saw one ♂ King Eider (Somateria ~~Mollissima~~ spectabilis) in lake near coast, but could not get him. Later, two ♂'s flew by pursuing a single ♀. Dropped one ♂ ~~at~~ 4:15. ♂ Somateria ~~Mollissima~~ spectabilis. Natives say the Eiders are not often seen this far up in the delta, but are common at Herschell Island and Baillie Island. Kogmollik name is (♂ Tutiriā-lik; ♀ Mitiak or Agnaviak).

After returning to camp, three Swans (whistling) came over the lake, and Kalkolak killed all in three shots - one a last year's bird, plumage with a grayish cast. Clear night, rather cold, freezing a little. Sat up all night by fire outdoors (tent left at Tuktuyaktok), drying clothes, and snatching cat-naps at intervals, waking up whenever the fire died down.

Inutiak found one nest of Pintail Duck, with two eggs, on island today.

June 16 (Thurs.) Returned to Tuktuyaktok in forenoon. Travelling better here today, as much snow melted away yesterday. Stopped at Tukt. for lunch. Made two photographic exposures here.
Clear. Warm. Wind ESE « NE p.m. and eve.
192 #3. Husky grave at Tuktuyaktok, with umiak frame, Kayak frame, 2 tomtoms, &c. on top. ♂ - 4 yrs - B.S. 4 p.m.
193. #4. Husky grave. Tuktuyaktok - ♂ - 4 yrs - B.S. 4 p.m.
194 #5. Husky grave. Kalkolak.
Started for Kangiannik at 8 p.m. arriving at 11 p.m. Much water but ice between Tukt. and (cut bank) near Ibyuk, but from Ibyuk to Kangiannik, nearly all the snow had disappeared, and water had run off, so we made good time. Road 100% better than two days ago. No birds flying, except a few Red-throated Loons and Old-squaws. Sipaiyuk and Kalkolak were at Kangiannik waiting for me (came up today).

#417.

June 16 (Thurs.) Bought a ♂ Oidemia perspicillata from Kunuktuaguk, shot here today. Pd. 1 plug tob. Also 1 dog. Giants egg from Inuitsak, for 2 plugs tob. One bone (whale's) adz from Oyungniya for 2 plugs tob. He said this adz was the kind used here "sipaunni" (long ago), and he had picked it up on the ground near Tuktuyaktok. The handle had disappeared (O. said a wooden handle was used, lashed on with sealskin thongs). Sipaiyuk said they had taken all my staff (except whaleboat at Annagowik) to Nellarowiak, that Mr. Stein would sail Saturday, and Jimmy on Monday. Stopped at Kangiannik only long enough for lunch.

June 17 (Fri.) Clear all day. Lt. NE wind. +52° at 6 p.m. Cloudy after 9 p.m. Wind SW coming.

Slight film of young ice on pools from 2 to 2½ a.m. Very hot during day. +52 at

Started from Kangiannik about midnight, with Komounna's sled, he going to Nellarowiak for fish as people there are catching many large fat Anarhluk (a species of Sucker). Sipaiyuk, Kubloaluk, Nuttallak, Inuitsak and myself comprised the party. Sipaiyuk paddled from Kangiannik to Annagowik in Kayak, making one or two short portages; we travelled with sled outside. Several flocks of White-winged Scoters (all ♂'s) passed north over Annagowik about 2 a.m. Dropped two ♂'s from one flock. Sipaiyuk killed one Red-throated Loon and several Old-squaws. Rolled whaleboat into water and Kubloaluk and I paddled, poled and sailed it to Nellarowiak along a channel from 10 to 50 yds wide along shore, where ice had sunk to bottom. Water nowhere over 3½ feet deep, except in a few narrow cracks. Thin film of young ice in places for an hour or two after midnight.

June 17 (Fri.) Hauled whaleboat on shore at once after reaching Nellaswick. Hot sun dried boat very quickly and I started to paint it very soon. Mixed paint rather thin with oil and turpentine so it dried rapidly. Large flocks of Old-squaws going north all day, and occasional flocks of Scoters. Seven large Anarkhluk (8-12-pounders) caught in Jimmy's net in lake today. Petersen's boy came up in kayak from Kittigaryuit today. Received note from Inspector Jennings, says sloop is ready to sail as soon as ground ice frees it. no "birds" at Kittigaryuit for ten days and Police "have been reduced to shooting Old-squaws."

Wind shifted to SW in evening; cloudy after 4:30 p.m. threatening rain. No rain fell however.

June 18 (Sat.) A few Old-squaws, Red-throated Loons and Pintails flying today. One flock Scoters seen, a few Jaegers, one Horned Lark. Five big Anarkhluk in net today. Kiglauna set net in shore water today for first time, and took out six good-sized Cousies just before we left. Paint on boats fairly dry today. Launched boats in evening loaded goods and sailed about 11 p.m. Jimmy's boat, Ginepeak, Piktokmun Jimmy's mother, and Inuktuna wife and boy; nine dogs. With me also Sipaiyuk ("Sweeney"), with his wife Ishowuna and baby girl, who wanted to go along to Ft. McPherson.

wind SW, stormy. Clear, warm

Took several pictures today.

*6. Mikkal'lik - 14-15 yr. son of Kunuktuaiyuk and Panniuktuat 8 - 1/100 - B.S. 12 M.

*1. Inuktuna ("Sam"), and adopted son of Palaiyuk's brother (½ white) 8 - 1/100 - B.S. 12 M.

*2. Komanina. 8 - 1/100 - B.S.

*3. Self (exposed by Jimmy, at his request). 8 - 1/100 - B.S. 12 M.

*4. Sipaiyuk ("Sweeney") 8 - 1/100 - B.S. 12 M.

June 18 (Sat.) #5. Jimmy, Suinekpeak, and Shukkallyuk (wife of Ivitkaina). 8 - 4/100 - B.S. 12 M.

#6. Kiktiu aun'na (son of Panigyuk, & brother of Ituneoiuk, Baillie Island), with his son Akkaniyak. 8 - 4/100 - B.S. 12 M.

Large area of ice near shore from Kellaroviuk & near Annayoviuk point, but open water outside, apparently as far as Richard Island + open water extending as far north as Annayoviuk. Worked boat out through narrow lead of shore water over sunken ice, past Kellaroviuk lagoon inlet, then out through some large cakes of floating ice to open water. Very few small, rapidly disintegrating ice cakes in water south of Kittigaryuit point. Saw his Steinin sloop sailing south about 2 miles away, and R.M.W.M.P. camp fires still burning at Kittigaryuit. Signal from shore caused us to turn in and help Kiblaulik launch his whaleboat. He and Petersen's boy had been left behind (the only inhabitants) to take four sleds with eight dogs, etc. direct to Herschell Island. Reached Kittigaryuit about midnight. Saw 6 swans in water this point.

June 19 (Sun.). Left Kittigaryuit about 1:30 a.m. with a good staff breeze. Passed sloop about 2:30 a.m. anchored near little creek. Mr. Stein, P.L. Petersen, J. Gruben, Inspector Jennings, Sergt. Selig, and Constables Pearsons and Kinney working 6-hr. watches. Selig and Gruben, 12 to 6 watch on shore setting nets. Saw there also one Hutchins from from a pair which flew over. Its mate circled about for a long time. Nobody stopped for 15 min. and sailed on. Six Swans seen again in river. After rounding high land above this place, wind was ahead, and I had to "track" boat about a mile along shore through Stinky mud half knee deep.

Clear
SE wind

Pearson recently found Pintail's nest at Kittigazuit advanced in incubation.

June 19 (Sun.). Reached creek mouth at Iglagōārʸuit about 10.00 a.m. after a hard night of beating up stream. Put out fish nets (said to be good fishing place. Many old fish caches, and a decayed fish shell in air. Day very hot. Tried Jimmy's long, narrow kayak. Paddled across creek but waves were running too high, so I did not risk coming back in it. Hole in kayak so small that I could barely squeeze my hips through, and no chance of extricating myself in case of upsetting. Jimmy came across and towed kayak back, while I swam across. Water pretty cold. Shrimp for birds. Shot 7 Old squaws. Saw many Arctic Terns, a few Jaegers, many Pintails (latter nesting). Saw a ♂ Pintail chasing a ♀, ascending in spirals until nearly out of sight. Blue-bottle flies (Nivĭōwuk) very numerous here. No mosquitoes (Kikkōrĭat Iwig.-ak), have been seen up to date, but two or three were seen about 10.00 p.m.

June 20 (Mon.) Kubloalak's boat came in during the night. Paid him additional for past services. 1 lb. "Lucy Twist".

Cloudy.
SE wind a.m.
SW. " p.m.

1 lb. "Big Nig", 1 pkg. Matches (12 bunches). Willows leaves bursting out today; catkins bearing pollen. Hillsides begin to look greenish. Saw one Robin flying over (the first Robin seen for two years). Yellow warblers quite numerous (called Kūnĭ'ĭsĭk). Jimmy says the Kuaĭaĭk come as far north as Kittigazuit. Shot. ♀ 418. ♂ Dendroica aestiva. (Yellow warbler). A few Redpolls seen around camps. Found a Redpoll nest in small willow, about 2 ft. from ground; just completed with Yellow Warblers' nest in willow, 3 ft. up, three eggs; nest composed of grasses, and lined with feathers.

June 20 (Mon.). Sipiguk killed ♂ & White-winged Scoter (O. deglandi) with hard-shelled egg in oviduct. Several White-winged Scoters seen during the day, and a few Pintails, pair & Hutchins Geese. Four Muskrats killed in creek today. A few Anarhichuk (large Suckers). Shi ū'lik (Jackfish) and Nūl ū'iak (small, red-sided Suckers, like a "Red-horse") caught. Nets raised about every two hours, usually three or four fish taken out, and boiled and eaten at once. Not enough caught to get any ahead.

Wind S.E. in afternoon, fairly strong. Sailed at 6 p.m. Passed Shi nig yū'ak about 11 p.m. little creek on east side of Mackenzie, with high bluffs on each side. Large snow-drifts still hanging to banks here. Did not stop here, but sailed across river a little further up, landing on a point called Nal'uk, a stony gravelly beach on Richard Island (a famous fishing place). Pamiūjak, wife and small boy camped here; many fish sun-drying on rack. Pamiūjak said Ovayuak had sailed for Fort McPherson this week. Tikitik and Ovayuak's two boys had gone around to Ok'a'vit (the Snow Geese nesting place) some time before. Several flocks of White-winged Scoters, Pintails, a few Widgeon & a flock of Sandpipers passed point. Yellow warblers seen on hill.

June 21 (Tues.) Clear. Strong NE wind. Very hot. Put out nets shortly after arrival at Nad'luk. Fish in both nets before they were fairly set. Caught several large Connies, many small Kaktak (Coluteform), a few Anarhichuk and a very few Suckers (Mikuiak). Caught a few small Beetles, and Pamiūjak's boy (alias "Hoodlum" from Herschell Island) brought me several large water Beetles. A few flocks of Scoters and Pintails passing. Stein's sloop, with Police patrol on board, arrived at 8 a.m. As they were short of provisions, they were compelled

June 21 (Tu) to anchor, and set fish nets, in spite of favorable sailing wind. They caught about fifty fish in two nets in nine hours. Saw a few Yellow Warblers and Tree Sparrows today.

*/. Camp at Nallukk, including myself "with three natives". Exposure by Inspector Jenness. 8 - 1/50 - B.S. 2. p.m.

Mr. Frank Pearsons (alias "Pan'nak," the Eskimo man), told me he had found a Pintail's nest just before leaving Kittegaryuit, eggs head set. Pearsons was an egg collector in England.

Sailed at 5.30 p.m. with stiff breeze, compelling us to put in a reef before reaching Pannā'riak (point on mainland opposite Tu'nuk, south end of Richard Island. No people here now. The conspicuous steep-banked island in middle of river, off Tunnuk is called trē'kik tā'ū'it. South of this, left bank is a somewhat irregular tableland perhaps (100 ft. above) more level. Point on left bank, high land, ca. 6 mi. S. of Tunnuk is called Tūrū'rait. Low island on right bank here. One island between, a little above (S.) and just (most northern spruce trees (nē'pak'tak). Camped at entrance to little creek at foot of high bluffs shortly before midnight. Slept anchored about a mile beyond us. Dead calm. "Big river" in sight. Saw a Robin and a pair of Rusty Blackbirds. Pair of White-winged Scoters, and small flock of Scaup in little pond. Two Muskrats shot. Fresh Beavers (Kī'gi'ak) still found on river bank.

Muskrat
Beaver

June 22 (Wed). Cloudy in early morning. Clear later. Hot. Light NW wind clear all day in morning stronger in afternoon. Four large fish (Coonies) light NW wind and Anaktuk in nets this morning. Climbed up the high wooded bluffs. Found Robin's nest in spruce, 5 ft. up, four young birds just hatched. Saw several Redpolls, Rusty Blackbirds
Strong gale
Rain 11 p.m.

June 22 (Wed). and White crowned Sparrows. Sailed about 10 a.m. following "East Branch". Sloop had already gone up "Big River" (Middle Branch). Jimmy said we could just as well follow East branch for some distance, and reach Big River at any time by one of numerous cross channels.

*3. Photo. East bank Mackenzie, just below approach to "Big River" from E. Branch. 8 - 1/10 - B5. 110 m.

*4. do. about 1/2 mile further up.

*5. do. about (mile) ", at place called Kʰtʰ'kō, showing barren clay slope, with scattering spruce trees.

A whitish chalky hill on East bank (height and composition is known) as Kʰtʰ tait tʰtʰ ā' luk. (Kʰtā'i taa-luk)

Kʰēd yō wik, a little "any" or bayou, runs north, opposite above.

Saw numerous Bank Swallows (Clivicola riparia) as Tʰtʰ lū at na' luk. Also saw Marsh Hawk (Circus hudsonius) Kʰē lā rēk (or Kʰēk).

*6. Ek'lirk paitʰ - 6.8 - 1/5a Hay sun. 6 pm. East bank near Big River; high hill much furrowed. Large island west of above.

Ek'lirk paitʰ

Ran into East bank and picked a mess of wild Rhubarb (nearly in blossom), about 2 ft. high, stem hollow, jointed. Tastes like cultivated Rhubarb. Ate some raw, and some boiled into soup. When boiled said by natives to be very laxative but I did not find it very much so. Called Kʰig yā yuʰ'ak. Many Arctic terns here. Breeze strengthened in evening; close reefed, and made little creek channel, camping on low willow and alder covered island. Found Redpolls' nest with three young barely fledged. Nest in willows, about 3 ft. up. Saw White crowned and Fox Sparrows, no Robin. Saw Rabbit. Int. Rama shot one Rabbit (Northern Hare), brown summer pelage.

See Richardson "Arct. Searching Exp." I. p. 232

June 22 (Wed.) hail very thin. Stunned some for specimens. Jimmy shot 8 green-winged Teal. Drizzling rain about midnight.

June 23. (Thurs). Sailed about 5:30 p.m. wind too strong to venture on "Big River"; according to Jimmy and Sipaiyuk so we sailed along up East Branch with Jimmy. Water shoal in places. A few driftwood snags projecting in places. (Wood stuck fast on bottom is called nūg'ĭu ak, floating wood is called kĕ'yuk — the same name as wood in general.) Ran into a little side channel about 10:30 p.m. to boil tea. Several Rabbits seen and one killed by Jimmy. Willows much "barked" by Rabbits at height of 3–5 ft. from ground. Flushed a small bird which fluttered away from a massing of drift near river. Bird wary and kept well out of sight in thick willow and alder brush. Nest with four eggs soon found on ground under a projecting root. Returned later and shot bird (Grinnell's Water Thrush — Seiurus noveboracensis notabilis), and collected nest and eggs. Incubation begun. Set. 6/7.

June 24 (Fri.). Continued sailing about midnight, through a series of narrow, tortuous channels, all apparently known to Sipaiyuk by names. Only once he admitted that he was not sure which course to follow at a place where four apparently similar channels lay before us. Rabbits numerous, appearing very often outside of willows on water's edge. Landed once on large spruce-wooded island to try to get some rabbits, as several were seen. Killed none. Found nest of Gray-Cheeked Thrush (Hylocichla alicīæ), three eggs, incubation —* nest in spruce, about 4 ft. from ground. Saw or sighted old nests of similar appearance in immediate vicinity. Eggs greenish blue, with clear, rich, burnt-sienna spots — resembling Pirango eggs.

* (Nest and eggs thrown overboard by mistake of Surveyor)

Varying Hare

June 24 (Fri.) — The parent bird flew uttering short chirps nervously about from tree to tree, about 30 yards away, until I shot her for identification. Grinnell Water Thrushes apparently numerous here, as notes were often heard, although only two or three birds were seen.

Varying Hare

Shot a ♀ Rabbit on river bank, large embryos inside. Fritzum shot another ♀ Rabbit today, containing four large embryos, well furred, apparently within a day or two of birth. Arctic Terns apparently nesting on a low muddy island — but water too shallow and bottom too soft to go in shore. Saw Robins, a few Rusty Blackbirds, Marsh Hawk, Bank Swallows, many flocks of Pintails, Surf Scoters, and a few Golden-eye.

Moose

Fresh Moose tracks in mud of river bank on small island near Shŭng'ŏk. Shŭn'ŏk

Camped about noon at Shŭng'ŏk a regular Husky camping place, at a point of high rocky land on East bank (mainland). Bank stratified black stone, hard, showing much red iron oxide between layers. Set nets, catching one loche, two large Coonies, one Inconnu, and two or three Whitefish. Caught a large brilliantly colored (bluish green and gold) iridescent Beetle under a driftwood log; also one other smaller black beetle with gray head. Beetles are called Kŏpĭ'lŏk but none of the natives had ever seen one like this before; admired it very much ārĭgă' ("pretty"). Small spiders numerous here, as everywhere through out the delta. Bottled a few in alcohol today. Natives are very much afraid to touch beetles, bumble-bees, or bugs of any kind. They will invariably dodge if a bumble-bee (numerous here) comes anywhere near them. Wind died down in forenoon, and we had much hard tracking this morning.

June 24 (Fri.). Put up tent at Shungok, but I did not use it. Sat down outside to pull off my boots to dry them in sun, but fell asleep on the ground from utter exhaustion, and slept four or five hours in hot sun. Woke up much mosquito-bitten. Wind freshened a bit and we sailed in evening. Saw a pair of Hutchins Geese, with four young, swimming in river. Dirk Kuna pursued in kayak, and shot one old bird in the water. The other flew ashore, and was shot there. One young bird caught — in down yellow (with greenish cast) down, bill and feet black. Jimmy said the young goslings would not die although the mother was dead, because they were big enough to eat grass. Saw two flocks (7–8 each) of Am. White-fronted Geese.

The season is, apparently, from three weeks to a month ahead of conditions around Kungaunak. Here last week, Brant and Longspurs were just beginning to lay eggs, while here Robins and Geese have already hatched their young. With fair wind, it would be possible to sail from the edge of the unbroken ice into midsummer (almost tropical) heat in over two days. Saw a few Ring-billed Gulls on mud bar, many Arctic Terns, a few Spotted Sandpipers, White-crowned Sparrow, Ravens. Shot a ♂ Surf Scoter (O. perspicillata) in river; pair (♂ + ♀) seen together. Dead calm towards midnight, and as we could make no headway against a fairly strong current, tied up for a couple of hours. Mosquitoes very troublesome tonight for first time.

June 25 (Sat.). Clear day. Cloudy evening. Calm midnight. Light NE wind in morning. Breeze freshened a bit about 2:00 a.m. and we sailed on. A stony point on SE tip of island is called Ūyō'a ū'it. Shattered rocks dips about 35° to SE. Heard Woodpecker (Arctic three-toed?) on bank, species known as Tū'gūk.

June 25 (Sat.). Calm from 9[30] a.m. to 12 M. Worked ahead slowly by sculling, paddling and tracking. Jimmy got a little ahead of us, killed a large ♂ Beaver (K[1] 9[1] 4[1]) in river. Camped on low muddy shore. Very hot. Snow-capped mountains on west side of Mackenzie are in sight today for first time. Water rather cool. Tried to induce Huskies to put out fish nets, but they insisted the place was "no good," nobody ever fished here. They are very conservative about trying new fishing places. All the best fishing places have been used for generations, and the men do not like to set a net at a place where his father and grandfather before him, have not caught fish. Contrary to advice I swam out with end of net, and three or four hours later took out five fine fish (two Jackfish, one large Cisco, one large Arctic Cisco, and one Whitefish, a miscellaneous collection). Light breeze started up in evening and we sailed. Breeze failed before we had gone more than a mile, and we had to camp again. Jimmy's boat had got ahead, around a big bend. Saw muskrats in little creek.

Muskrats

Beaver

Boiled Beaver meat for dinner today was very good. The broad, flat tail is the most prized morsel — boils soft, gelatinous, somewhat fatty.

June 26 (Sun.). Clear. Hot. Light W. wind. Strong SW in evening. Cloudy.

Set net at mouth of little creek last night but caught no fish at all. One flock of seven Hutchins Geese alighted on river bank near camp, and a flock of six White-fronted Geese flew over. Sailed early in morning. Saw seven Ravens in one flock. Pair of Black-throated Loons (K[1] 4[1] 1[1]) in river. Tried at close range, but they escaped out of range by diving, emerged from

June 26 (Sun.). water fluttered for about 100 yds. along surface and flew away. Saw a few Spotted Sandpipers, Arctic Terns and Ring-billed Gulls. One Ring-billed Gull (Nau ya va' ʁū tjū ā' lik) perched for a long time on top of a spruce tree. Overtook Jimmy in forenoon. He had camped at a little creek and caught several Coregonus. Reported Ikillicit (Indian) tracks on East side of Channel here. A few Dragon flies (large brown species, and smaller black and blue species) seen today.

Reached "Big River" (several miles above mouth of Red R.) about 6[00] p.m. Breeze freshened from SW about same time — a fair wind. A high point on east side of river is marked by a lop-stick known as Ire-tjai'-yuk, a little below high land on west side marking entrance of Cut-off (from Mackenzie) to Red River. Shoal water on west side of river here, making a difficult channel for a whaleboat to enter. We were obliged to sail 4-5 miles up the river around the north End of a long, low sandy island (Mc Gillivray's Island?) nearly to Point Separation, before we could enter the channel to Red River (route followed by Steamboat).

*3. Phot. Lopstick at Ire-tjai-yuk. 6.6. 1/50 - BS. 6[00] p.m.
*3. Point. Ire-tjai-yuk, from north. " " "

Saw 4-5 young Ravens, with parents on bank of river. The young birds were nearly full grown, but apparently could fly but a few yards at a time. They seemed unsuspicious as we sailed past within 75 yds. although the old birds were very anxious.

Wind suddenly shifted to NW. very strong, raising a heavy sea against river current, choppy, breaking waves. Close-reefed sail with difficulty. Wind increased, and we were unable to tack without lowering sail. Shipped about a barrel of water over gunwale and nearly capsized. Ishawan was terrified

June 26 (Sun). No place to run to on either side — rocks on bottom on east side of river, and shoals (sandbars) on east side (both equally dangerous). Finally made a landing on East side near Point Separation and stayed for about two hours, until wind moderated. Two nets put out — Jimmy caught one Jackfish and we one large Connie.

Jimmy gave me $4.00 to buy shot from ships at Herschell Island, if possible. Same to be sent to Kittigazuit by Esquimaux. Sent $5.00 by Jimmy to Red River to buy pipsi (dry fish), to be sent down to Fort McPherson by the Steamer.

June 27 (Mon.) Cloudy. Rain from 2–3 a.m. Clear after 6 a.m. Lt NW winds

Sailed about 2.00 a.m. running across Big River and into cut-off from Mackenzie to Red River. Slightly head wind, but we made fair progress by long tacks, having current to aid us. Stopped at little creek mouth for breakfast. Set net but Caught no fish although a big one entered net and escaped. Entered Red River about 5.00 a.m. Found Mr Stenis sloop anchored just within, having arrived an hour or two before, but unable to make headway with light wind. Passed by soon, as we needed fish and we wished to reach Nelson Fishery if possible. Sailed into Channel on East side of the big island, a very crooked channel. At upper end of island were somewhat puzzled as to which course to take. Sipaiyuk paddled kayak across river and found that water in opposite channel was running N.W. while around the high point the current was from south & water running very swift, with appearance of sunken rocks in middle of river where stream divided. Tried trading around on both

* Party of miners lost here for 3 weeks last summer — Cracked Compass completely around island before they discovered that water was running "up-stream"

June 21 (Mon) sides of river, but failed on account of large masses of fallen earth and trees from the banks catching and holding the tow line. Soon the breeze freshened a bit, and we managed to barely sail through. Crooked river channel made wind unfavorable, and we had to track for about 2 miles below cut-off to Nelson Fishery. Just below cut-off, water became too shoal on side where I was tracking, so I cast off and Sweeney tracked a short distance on other side. As he sailed around point to pick me up, wind and cross current swept boat below overhanging bank, nearly breaking mast, and knocking two or three bushels of dirt into the boat. At least a ton of loose earth, held together by a few willow roots and needing only a slight jar to loosen, hung over the boat, but fortunately did not fall. A heavy earth fall would surely have swamped the boat in water over ten fathoms deep one foot from shore. Reached Nelson Fishery about noon. Set two nets at point where clear water from creek mingles with muddy water of Red River. Ice filled fish stages here, but no people. Kept for 5-6 hours. Only six fish in two nets - two Conmies and four Whitefish. High stage of water probably accounts for few fish. Heard plunge in water, and Beaver's head seen to emerge several times. Sweeney went out in kayak, and with shotgun shot Beaver (large 8') as it came up about 25 yards away. Sailed about 8 p.m. with light NW wind and made about a mile and a half. Wind died down about 9 p.m. and we Camped near high bluff on East bank about 2 miles below Husky River. Current too swift to set fish nets. Sergt. Selig and Constable T. Parsons arrived tracking whaleboat, about 11:00 p.m. on a "Relief Expedition." Reported that people on sloop had been unable to catch any fish and had only about one day's food left.

June 27 (Mon.) Saw several large flocks (30-40) of Pintail Ducks, a few Scaup, Spotted Sandpipers, and Arctic Terns along Red River today.

June 28 (Tues.) Calm a.m. Clear. Hot. NE wind p.m.

Started up river about 2:00 a.m. tracking boat against current, the R.N.W.M.P. boat going ahead. Fairly good tracking along east bank. Passed East of long, low, muddy island about one mile below entrance to Husky River, but found channel at upper end of island too shallow to get our boat through, and had to go back around lower end of island. Current very strong here, and we lost considerable ground, drifting down stream in paddling to west bank. Tracked boat along west bank, along foot of steep, mud banks 15-20 ft. high, steep slopes with barest possible footing below, and deep water close inshore when not obstructed by snags. A misstep in tracking would have plunged a man into swift water of unknown depth. Terribly hot work under river bank, no wind, and mosquitoes abundant and vicious.

Camped at cut-off a little below Husky River. Set out large net at mouth of cut-off. Sipaijuk thought me a fool enough, but I persuaded him to set another on the other side of channel. He had just come back & boat with kayak, when a fish was seen struggling in net. He went over and took out nine fine, fat Whitefish. Slept for about four hours. Breeze started from NE. Took up fish nets - nothing in Sipaijuk's net. He took twenty-five Whitefish (two Kayak loads) from my net, the last load emptied the net, but when he came back a few minutes later to take up net, two more fish were taken out - total 36 Whitefish.

June 28 (Tues). Several cords of wood piled up for the steamer at Husky River. A Yellow-billed Loon (Tuk'lik) flew over several times. The note is a wild piercing whistle, quite unlike note of either Black- or Red-throated Loons. Saw Fox-Sparrow, Arctic Tern, Ring-billed Gulls, Robins, and Rusty Blackbirds at Husky River.

Husky River is about 10 miles below Fort McPherson. Stopped for a short time at camp of Ni'nat Tja'yuk, about 2 miles below the Fort. He is catching a few fish here now, had a few drying on rack. Ni'nat Tja'yuk is a Kogmollek Eskimo, son of the old man Ki'nuk'ta a'yuk (now living at Kangiannik, and has an Indian (Loucheaux) wife, three small children. Children are more of Indian type than Eskimo. Police say this is the only instance they know where a Husky has an Indian wife; say that Ni'nat Tja'yuk went up Mackenzie River many years ago but was afraid to return to his own people (for some unknown reason), and had remained in the Company's service for a long time. A little steamer passed us at this place going down river. She had arrived at the Fort last Friday being sent down by HBCo from Fort Smith, bringing a few supplies for each post. Reached Ft. McPherson about 8th p.m. Eight Arctic Nunatami whaleboats here "Big" Ja'kuk, Kobagoan, Ahguk and others. Report is that "S.S. Mackenzie River" is unable to cross Great Slave Lake on account of the ice, but is expected here July 3-5th. Minister of Interior Hon. Frank Oliver with Secy expected on steamer. Sergt. Richland, R.N.W.M.P. and Mr. Wattel recently arrived here, coming across mountains from Porcupine River, to escort Mr. Oliver to Dawson. Mr. Hubert Darrell, the man who accompanied Hanbury from Hudson's Bay to the Coppermine, came with them, but had gone to Red River. Had supper at Police barracks, and later, a pleasant visit,

June 28 (Tues). and another (midnight) supper with Rev. and Mrs C.E. Whittaker (Church of England missionaries).
Five Indians were swamped in a canoe last spring 15 miles up the Peel, with 4x green Beaver skins on board, and four drowned. Five Indians are here now. Most of them are said to have gone over the divide as many miners and prospectors are working there now, on Black Sand creek, and other places, and it is more profitable (& easier) to work for the miners than to trap fur. Some are said to be staying away from the Fort to avoid payment of "debt" to the Company.

Beaver

June 29 (Wed.) Very few fish are caught here now, and the natives are living from hand to mouth.
Clear. All the Nunatami Boats sailed today (with Exception
SE wind of Aglgutt's. Four boats are going to Kittegaryuit
Hot. for the Killaluat (White Whale fishery). Some of them
also go to the north side of Richard Island to look
for White Whales. The White Whales are said to appear
in the Estuary East of Richard Island shortly
after the ice breaks up (some time in July). About
two hundred were killed there last summer.
Bought from H.B. Co. store. 25 lbs. flour.
3 lbs. tea. 2 lbs. sugar. 2 bandanna hdkfs.

White Whales

June 30 (Thurs). Very hot day, hot enough to keep down the mosquitoes
Clear. for several hours during the middle of the day.
S. NE wind Blue bottle flies and large Bulldog flies numerous and
Very hot active while mosquitoes are resting. Dragon flies
(Odonata) Numerous (Koguelliit Inuit - Nŷ ū'lirk)
Three or four pairs of Cliff Swallows (Hydrochelidon lunifrons)
are nesting under eaves of Police Barracks and the Mission

June 30 (Thurs) House. Rev. Whittaker says that last summer was the first time they had ever appeared here. Saw one Fox Sparrow on river bank; many Bank Swallows. Bird life very scarce here. Inspector Jennings arrived here at 4.30 having been brought up from Husky River, by a "Relief Party." Stein's sloop had been tracked up as far as Husky River. Had supper at Barracks, and read a few fresh newspapers afterwards (Summer 1904).

July 1 (Fri) Dom. Hol. Lt. SW wind. Very hot. Spent day cleaning and repairing boat. Intense heat on beach keeps mosquitoes down during middle of day, but they come out in force when the sun lowers, after 6-7 p.m. "Bulldogs (Tabanni) numerous and vicious during heat of day, sluggish at night. Dragon flies very numerous - 3-4 species. Caught specimens of three species.

July 2 (Sat.) NE wind, fairly strong in morning. Clear. Breeze freshened from NE about 10 a.m, and soon brought three whaleboats up river - Ovayuak, and ____. A little later Rickett Co's little steamer, and the small H.B. Co. steamer Ariel came back from Arctic Red River; with several more Husky whaleboats - also Mr. Stein's sloop. H.B.Co boat brought down Hon. Frank Oliver, Minister of the Interior, Ottawa with his secretary, who is making a tour of the North. S.S. Mackenzie River expected any time after 5th. Mr. Oliver, his Secy, Secy. Ackland, and Mr. Waters (Special Grade) found Indian packers. Left at 9.25 p.m. Crossing Peel River, bound via La Pierre Houses, Bell River, Porcupine River, Rampart House &c, to Dawson. Mr. Oliver is a rather old man, but astonishes the H.B.Co. people by the energy which he displays in moving about. Party leaving - 6.8 - 1/25 - 3.5. 9.25 p.m.

July 2 (Sat.) A scow, with ___ miners, or prospectors arrived today drifting down the Peel, from Mud River where they had wintered. Found no gold, and learning now that the chief promoter and senior partner, Harry Waugh, who had "gone out" during the winter had committed suicide by hanging in Chicago, were compelled to abandon outfit, and come out. Said they had kept a hole in river open all winter, about 35 yd. from cabin, undressed indoors, and ran down for a plunge every morning throughout the winter. Coldest -55°. All had kept in good health, and free from colds. However the Eskimos in equally cold situations keep healthy in winter without bathing at all. Everybody swimming in river today

July 3 (Sun.) Clear. Calm. Hot. Cloudy now. Very hot day, hardly a breath of air stirring. Camp on sandy, dirt bank is very dusty. Few fish are being caught. Mr Firth caught a Connie day before yesterday which weighed 50 lbs. on the scales. Missionary Whittaker is busy here now. Several services today — Indian (Loucheaux), Eskimo and English. Practically all the Indians here speak passable English although they use their native dialect among themselves.

July 4 (Mon.) Clear a.m. Rain p.m. Wind NE a.m. SW p.m. Calm 11 p.m. Lightning and thunder. Rainbow. Clear hot forenoon. Sprinkles of rain at intervals during afternoon. Sharp lightning and thunder 9–10 p.m. Wind light NE in morning, nearly calm in afternoon. Light NW in evening, shifting suddenly to SW. Midnight storm. Storm passed very known. Two boats sailed for Red River today. Tipsiyuk went with them. Paid Tipsiyuk for his services, helping me sail boat from Kittegaryuit to Ft. McPherson, and service before that time.

July 4 (Mon.) 1 woolen blanket $6.12. 5 yds. print calico $1.00
1 fish net (15 fath). 3 lbs. powder,
1 box (100) gun-caps. 5 pkg. matches.
6 plugs Navy fine tobacco. 4 pkg. Cigarette tobacco
1 box Cig. papers. About 1 lb. tea and 5# flour.
Dogs got into my boat last night and ate up one of my water bools (sealskin) and several pounds of Bacon. Bacon was in wooden cask, with deckpan on top, covered with heavy sail cloth, and boat anchored well out from shore, but the pesky "varmints" got to it, anyhow. Big Indian dance in evening.

July 5 (Tues.) Cooler. Sunshine in early morning. Cloudy forenoon. Light rain about noon. Rather heavy shower in evening. Spent most of day writing, with frequent interruptions.
Cloudy a.m.
Wind NE.
Light rain.

July 6 (Wed.) Cloudy morning. Light rain about noon. Bought some miscellaneous groceries from Mr. L. Warren Carter, chief of the mining outfit. He gave me a bargain, at invoice prices. Total $9.00: 20# raisins. 20# prunes. 2# coffee. 5# salt. 2# Soda. ¼# pepper, ¼# mustard. 6 cans tomatoes, 12 cans Beans.
Cloudy.
Rain.
Wind NE.

July 7 (Thurs.) Alternating clouds and sunshine. Sprinkle of rain in forenoon. Two Harvey brothers and Chas. Pearson swam across Peel River, at about 45° slant down stream. Distance 500-600 yds. straight across. Jimmy Firth says no one has swum the river here before. Several Indians from La Pierre House arrived on east bank about 6 P.M., made a signal fire and were brought across in Desjarlais's boat. They were pretty ragged and dirty-looking. Several arctic Terns over river today. Occasional Savanna Sparrow about the only birds to be seen on river bank.
Very light NE wind.

July 8 (Fri.) Light N wind in a.m. Calm p.m.

Cloudy in forenoon, somewhat cooler. Clear evening, warmer. A single Say Phabe (Sayornis saya) perched on bottom of overturned boat near my tent, for a minute, then flew back to the willows.

The Indians here (Loucheaux) are now on very friendly terms with the Esquimos who come here, although thirty or forty years ago they were at war (in Mr. Firth's time). In their conversation with each other they use a jargon (principally of Esquimo words, uninflected, or only one inflection of a word used). However, they converse volubly, and seem to understand each other very well.

July 9 (Sat.). Light NE wind.

Hot. Wind light, from NE. Cloudy forenoon. Clear afternoon — light rain in evening. Clear after 12 p.m.

July 10 (Sun.) Wind NE — SW

Clear, hot, forenoon. Wind NE. Shifted to SW in afternoon, and blew in strong gusty squalls. Light rain in evening. Church services were conducted at intervals throughout the day — different services for Indians, and Esquimos. Attended English service at 6:45 p.m. Evening prayers for Indians are held every day at 9:15 p.m. conducted by natives, and every man, woman and child of the Fort attends regularly.

July 11 (Mon.) Wind W.

Hot day. Sky partly clouded in forenoon. Light West wind. Saw a Say Phoebe. Indians are catching a very few fish, mostly Arctic-blue in a little creek, and west side of river, a short distance up the river. +85° in sun.

July 12 (Tues.) NE Wind SW

Warm forenoon. Cloudy afternoon. Brisk shower about 6:30 p.m. Rain at intervals all night. Sun dips below horizon at midnight, and nights are cooler.

July 13 (Wed.) Cloudy forenoon. Almost calm. Red River has fallen almost two feet since yesterday. River rises rapidly when there is rain in the mountains. Heavy pouring rain in evening; light rainfall all night. Strong SW wind. Saw Robins.
0 – SW wind. Rain.

July 14 (Thurs.) Rain in early morning. Cloudy forenoon. Strong S.W wind. S.S. Mackenzie River arrived about 11 p.m. Delay caused by low water in Athabasca River necessitating bringing loads down in half-loaded scows and also by accident to tug. Officers Capt. J.H. Mills; Eng. Wm. Hay, Purser, Mr. Price. Letters received from home, from American Museum, and others.

July 15 (Fri.) Clear, hot day. Spent most of day answering letters.
Hot. Brabant, Sup. in charge of Mack. Dist. G.A. Tremaine Commis.
Wind NE. Ex-Segt. Fitzgerald has returned as Insp. in charge of Mackenzie Dist.
Clear. with Corporal Somers, 3 Constables.

July 16. (Sat.) Cloudy most of day. Steamer started back at 2 pm for Bonfait from H.B.Co. bill of Goods #175.14 (+ #3 on July 18) = #178.14
Mr. W.E. Jackson of Meteorological Office, Toronto, inspecting stations in here. He took solar observations for latitude and longitude; says he finds his observations differ somewhat from charts. Nansen wintered on Jeannette Island with Capt. Bernier's "Arctic" in 1901 (?).
Pd. frt bill H.B.Co. - Am. Mus. Goods from Ath. Landing #74.52
Drew Cash H.B.Co Letter Credit #213. 350.24

July 17 (Sun). Clear hot day. Very light NE wind. Cloudy after 10 p.m. Slept most of day, after being up nearly two days while steamer was at Flat. Attended wedding of Mr. Stein in the evening. Nights cool now, since sun has gone below horizon. Tropical-like morning day usually runs up to +80° F.

Wind NE. Clear hot

July 18 (Mon). Cloudy morning. Cool. Light rain in afternoon. Heavy downpour from about 6 to 9 p.m. Sailed from Fort McPherson in company with Mr. Stein ~~schooner sloop~~ at 12 p.m. Part of time sailed alone and at other times made fast to sloop. Light S.W. breeze for short time in evening. Saw a Kingfisher (Ceryle alcyon) just below Husky River (about 3 miles above Nelson Fishery.) Saw Ravens, Bank Swallows, Arctic Terns (apparently resting on muddy islands — same place where I caught young Terns July 15, 1908.) Ring-billed Gulls, Ring Plover, Pintail Duck and Jaegers. Passed Nelson Fishery at about 11 p.m. ~~they~~ were catching a few fish.

July 19 (Tues) Cloudy morning. Sunshine from 10–3 p.m. Warm. Passed mouth of Peel River at 6 a.m. The Kittlitz's tug anchored there. Grounded on shoal about 3 miles below, and had to Kedge off, taking anchor ahead in whaleboat, and hauling sloop up to it. Deep channel on West side of river. Sailed with my whaleboat made fast alongside schooner.

Pictures —

July 17 — #5. H.B.Co. Bldg. Ft. McPherson. 6.8 — 1/50 — B.S. 8 p.m.
#6. St. Matthew's Mission. " 6.8 — 1/50 — B.S. 8 p.m.
July 18. #7. Children of Ti rak Tja yak (Wilfred Husky) Mother of children a Loucheaux woman. 8 — 1/50 — B.S. 7.45 a.m.

July 19. (Tues.) *2. P.L. Peterson and wife Panitjat. 8 - 1/25 - B.S. 10 a.m. Ran diagonally across 1 broad stretch of river toward a high bluff bank on west side, passing along a low sand bar, then swung into a narrow deep channel known as Ak tä' vik (ca. 25 mi. long). Camped on low grassy bank, bordered by willows. Set nets on opposite side at mouth of a little creek (spruce trees behind it). Few fish caught. Caught young half-fledged Tern on sandspit. Many old Terns flew down, nearly striking our heads. Saw Rusty Blackbirds, Pintails, Ravens, Ring Plovers, ~~Spotted~~ Sandpipers. Rain in evening.

July 20 (Wed.) Clear a.m. Rain p.m. Wind S.W. One of Steini dogs ran away, giving me a chance to run through the tangled brush for a mile or two! Saw many birds and several Rabbits. Shot one young ♀ Rabbit (Rabbit) L. 305 m.m. T. 19. Ht. 104.

*421. ♀ Robin juv. ("Shab'wak") Planesticus m. migratorius

*422. ♀ Varied Thrush Ixoreus naevius meruloides

*423. ♂ Ring Plover ad. (Kö lik a ti ä' lok).

*424-5. ♀♀ Ring Plovers juv. in down. Just hatched.

*426. ♂ Bohemian Waxwing juv. Well fledged. Only one waxwing seen.

*427. ♀ Rusty Blackbird Euphagus carolinus

Varied Thrushes - several, adults seen, and one fledged young bird found dead on ground. Robins very abundant. Saw several Rusty Blackbirds one Yellow-legs (Totanus flavipes) and a Grinnell Water-Thrush. Sailed about 10 a.m. In afternoon Inspector Jennings and myself launched Peterborough canoe and paddled to a small creek on right bank where he had caught Jackfish with Spoonhook last fall.

July 20 (Wed). We got no bites at all today. Paddled up creek (or bayou) about half a mile & saw tracks of large Bear in kind of banks. Saw four Black-throated Loons on river many Arctic Terns and one Bear Varying Hare head Woodpecker. Shot Rabbit. Rigged mast and sprit sail on canoe, but wind soon dropped and we had to paddle after schooner overtaking her in about two hours. Anchored at 8 p.m. about halfway down Alaviak channel. Rain all night. Heard Woodpecker

July 21 (Thurs). Light S.W. wind. Rain a.m. Cloudy most of day. Rain p.m. at intervals. Stopped 2-3 hrs in afternoon near wooden sign (recent) on right bank. Set two nets, two Red Suckers (Nilmiak) caught. Surveyed near mouth of creek in vain, although Petersen said at former times large Cookies were caught here at rate of 12-15 per hour. Heavy rain in evening. Anchored about 300 yds off shore. Strong NE gale, raising rough sea about midnight.

July 22 (Fri). Strong NE wind all day. Heavy rain in morning. Cloudy until 7 p.m. Anchored all day. Rabbits seen on shore, also Canada Jay and Rusty Blackbird. Wind lowered in evening. Nipak Tuk (alias "Pete," alias "Young Roxy") with his wife "Mamie," and an old Nunatarmi with toothless wife known as "Blinky" (a one-eyed woman), and "Skagelo George's" little girl, passed us in whaleboat. They have caught few fish on the way from Fred McPherson

July 23 (Sat) Strong NE wind. Rain all day. Heavy sea running as water is shoal hereabouts. Made little headway down stream by tacking against head wind, Schooner towing two whaleboats. Anchored near night (east) a little below Black Mountain (a conspicuous landmark on west side of river. Mountains only a few miles away. No trees on west side of river. Rather high, rolling hills come down to water's edge. Near here is the winter overland "portage" to the coast near K— Point. Spruce trees thick on islands East of us.

July 24 (Sun). N.E. wind. Cloudy. Rain a.m. Clear evening. Saw Jaegers and Short-eared Owls. "Pete" says he saw a Brown Bear on island a few miles up the river yesterday.

Brown Bear

July 25 (Mon). S.W. wind. Clear. R.N.W.M.P. whaleboat overhauled us about 3.00 a.m. Inspector F.J. Fitzgerald, Staff Sergt. Selig, and Constable Wissenden. Calm at midday. Anchored for three or four hours and caught two large Cottids. Light breeze in evening. Passed last spruce trees on island to right of us.

{ 3. Police Boat. W. br. Mackenzie R. 6.8 — 1/50 — B.S. 7.00 a.m.
{ ** 10-Ch. Cottid. " " " 11 — 1/25 — B.S. 3 p.m.

About pictures spoiled -- superimposed exposure. Saw Ring-billed Gulls, and heard Ptarmigan calling in willows on mainland side. Anchored about 8 p.m. near mouth of river, west of Trout Island. Six to eight foot channel near west side, shoaling across diagonally to left near point. Saw pair little Brown Crake. Trout Gulls. Mosquitoes excessively abundant, and vicious. Very little wind in evening.

July 26 (Tues). Near Tent Island; west side. Anchored all day. Wind NW. Morning cloudy. Clear p.m. Loud variable. Saw Little Brown Crakes, Petrels, Loons, Terns, Gulls. Heard Fox barking. Mosquitoes bad.

July 27 (Wed.) Wind SW. Cloudy. Sailed 3:40 a.m. John Grubem went with me in wholeboat ahead of schooner. Set on seven-foot channel all the way out into Shoalwater Bay. Landmarks for entering: Sail east, well off shore, until a hummock on mainland is seen in line with a conspicuous dark ridge on mainland side. Breeze freshened as we got out into bay. Police boat and tent seen on shore about 5 or 6 miles out (Little Harbor about 5 mi. west of Whitefish Station. Stein signalled for us to go in and see what was the matter. Tacked in. Everybody asleep, and wholeboat high and dry aground. People had made camp and tide had fallen. Helped unload boat and launch her. Sailed again about 8 a.m. and reached Shingle Point about noon. Several whale boats and Pokits sleep here. Passed 2-3 miles outside of Atpa vai Gat (Escape Reef), where there is also a good harbor. People at Shingle Point are catching large quantities of fish — large and small Cowlics and Whitefish. Stein's people put out two nets and caught about 200 fish today. Cowlics not so good now as in winter — flesh rather soft and flabby in summer. People here are drying very few fish — say there's plenty of time "akanna" (bye and bye) later in the season. Few of them ever have enough fish to last until spring, however.

July 28 (Thurs) Wind SW, strong – a regular gale. Clear, hot. Saw a few Arctic Terns, Phalaropes, Lapland Longspurs on sandspit. Shingle Point sandspit is about two miles long, curved outward, enclosing a large deep lagoon; main entrance at East end. There is a break through the middle, narrower and smaller than formerly, but large enough for whaleboats. Killalunak (White Whale) seen about 200 yds off shore, and one boat went out, but got nothing. Sailed up to a little creek at SE head of lagoon for fresh water. Old ship's ice house near here. Mosquitoes thick inland. Light wind about midnight.

July 29 (Fri). Light SW wind in morning. ~~Pelly's boat~~, Mpatterma's and Police whaleboats sailed west. Wind lighter at noon, strong wind (SW) in afternoon. Killalunak seen. I would have sailed this morning, but have to keep with Mr. Stein, as I am alone in boat. Stein is afraid to sail unless wind is just right, he is always afraid wind is about to "haul" and has to wait until a fair wind has blown several hours before he is sure it has "settled." He says this voyage from Ft. McPherson has shortened his life five years, on account of the worry.

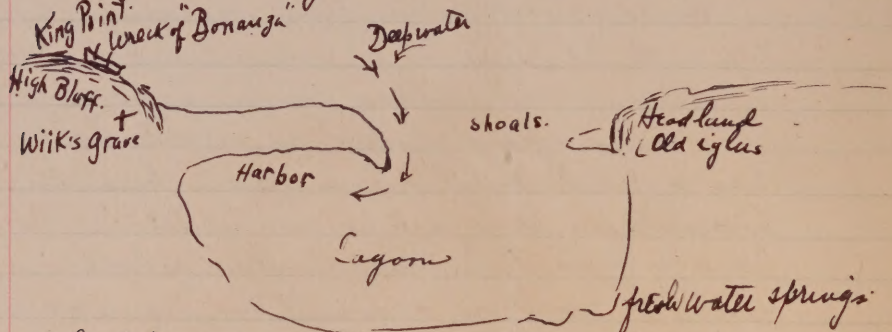
July 30 (Sat). WSW gale. Cloudy. Rain in evening. Saw a small flock of Semipalmated Sandpipers and shot two. A few Arctic Terns, Snow Buntings, and Savanna Sparrows seen.

July 31 (Sun). SW wind, strong. Cloudy. Rain during forenoon. Heavy swell outside reef.

August 1. (Mon). S.W. wind. Cloudy a.m. Sunshiny p.m. Heavy swell, breaking in great rollers. Wind shifted W.N.W. about midnight.

Aug. 2 (Tues). Wind SE. Clear a.m. Potsirk's sloop sailed. Took snapshot of sloop as she was going out — loaded down with people, dogs, and gear.
#4. Potsirk's Sloop. 8 — 1/50 — B.S. 10^30 a.m.

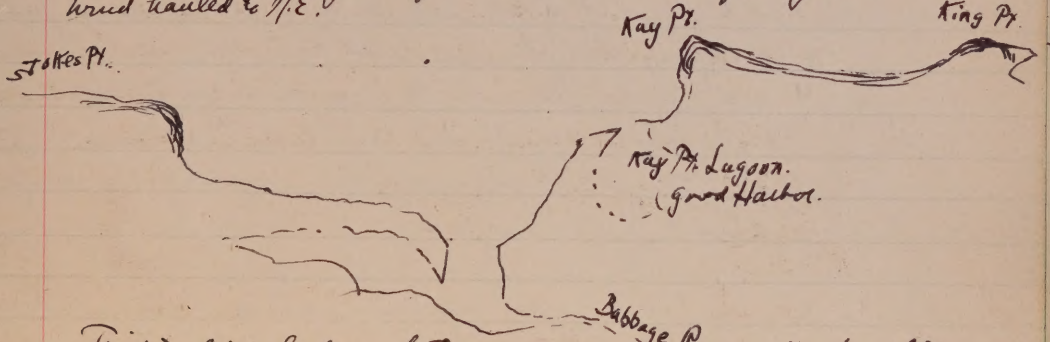
Aug. 3 (Wed.) Wind SE. Clear. At midnight thought we saw large ship to N.W. but it proved to be floating ice, or the "loom" of it. Sailed from Shingle Point at 12 a.m. and reached King Point at 4^30 a.m. (about 12 miles). Wind died for a little while but soon freshened. Heavy swell persists. Potsirk, Pete, and Police, and Simon and Boats "Bonanza" boats just leaving as we entered harbor.



Shoal is said to have completely shut off Lagoon a few years ago. Sandspit on left (W) is being rapidly cut away. Captain Roald Amundsen wintered with "Gjöa" close to wreck of Bonanza, winter of 1905-6. Ruins of Amundsen observatories, etc on ground. Wiik's grave was moved inland about two yds. last summer on account of bank washing away. Petersen says the cliff has not caved much since last summer. Mosquitoes abundant and vicious here. (A field lay-ice can be seen at a distance off Shingle Pt. (NW) in early morning — the only ice seen.)

Aug. 3 (Wed). #5. West of Bonanza. King Pt. 8 – 1/50 – B.S. 8[40] a.m.
#6. Gustav Juel Wick's Grave. " " 8 – 1/50 B.S. 8[30] a.m.
Marmots (Spermophilus parryi) abundant everywhere on the hills. Sailed across lagoon in afternoon and filled tanks with fresh water. Kretik took dot same. He used 220 gallons of water coming from the MacKenzie, in his little tug. He tows the sloop when too calm for sailing. A few Alpet berries – half ripe (yellow Salmon Berries).

Aug. 4 (Thurs). Wind S10. a.m. Clear. SE p.m. Sailed from King Point at 8[05] p.m and rounded Kay Point (about 17 miles) at 11:35 p.m. After getting 3–4 miles East of Kay Point wind hauled to N.E.

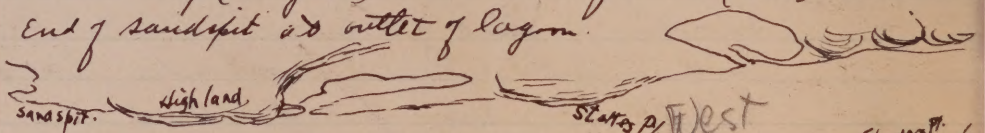


Tried to find harbor, but missed it, and had to paddle back along sandspit, and entered a shallow lagoon at mouth of Babbage River. Anchored. Caught many Whitefish in nets here – 3s while setting net.

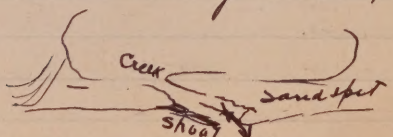
Aug. 5 (Fri.). Anchored in lagoon 4–5 mi. East of Kay Point. Fog in early morning. Sprinkles of rain. Clear p.m. Calm in forenoon. Wind E, favorable. Sailed at 6 [30] p.m. wind S. nearly reached Stokes Point. Saw camp on sandspit, and ran in for a minute – one "Hard Luck" (Kogmy) living there. He begged some tobacco and gave us 9 smoked fish. Saw Seal. Deep water close in to sandspit. Some water blew up about 9–10 p.m. We reefed twice and

Aug 5 (Fri.). tried to beat in to a little creek harbor east of Stokes Point, but dense fog came up, we could see barely 100 yds. and decided to run back to our old harbor. Run back about a mile east of "Hard Luck's" camp and found a little shelter in a bight of sand spit. Made fire, but tea was not yet boiled when we heard Kretikitok's tug whistling in fog. Soon he loomed up, going west along beach. Said he had lost Steni, and was going to Herschell Island alone. Offered to tow us. We immediately made fast. He towed us about a mile, his own whaleboat and ours astern. Wind had gone down a little, but swell was very heavy and tug made little headway — everything pitching and rolling terribly. We soon cast off and made back to our old shelter, built fire and waited for morning. We (J. Gruben and I) did not dare to sleep, for fear the wind might haul around, and we would have to stand off shore again.

Aug. 6 (Sat.). Dense fog in early morning, which lifted about 5[30] a.m. Eskimo camp (Ki'yats) about ½ mi. from us (east) near end of sandspit and outlet of lagoon.



Sailed about 5[00] a.m. Cruised along coast, stopping for a little while to examine bad harbor east of Stokes Pt. Entrance very narrow, strong current out (flowing NW).



Shoal outside. Would be hard to enter in gale. Saw Terns, Long spurs, Yellow-billed Loon. Wind SW when we started, shifting to S and then to SE. Wind being fair

Aug. 6 (Sat.) We headed straight across to Herschel Island. Krekitk's tug sighted for us to sea, making for the Island. When about half way across, wind hauled to NE and we had to tack off, then NW. and we had to beat against a strong head wind entering the Whalers' Harbor. Saw many Seals while coming across. Reached Herschel Island about 10 p.m.

News: In gale July 21st. at Flaxman Point, five Nunatami whaleboats (Kuinirk's, et al) and Nuigat Yak's sloop were beached, whaleboats badly smashed, but repairable, while the sloop was a total wreck. A little 10-12 gasoline motor sloop, the "Teddy Bear" passed Eastward, on white man Joe Bernard, of Nome, Master, with an Eskimo family, "Teddy Bear" took our goods on at Barrow last summer from Capt. Bradfish "SS Herman", wintered at Barter Island, collected skins, furs, and birds eggs. Bernard's partner Mr. Gus Sandstrom, lost on ice last winter. Our goods left at Herschel Island. Constable Sam Carter said Mr. Bernard opened one of my boxes and took twenty rolls of Kodak films. Said he was going to winter as far East as he could get - Coppermine River or Prince Albert Land.

Tuligyak wife, mother & children

Capt. Cottle, with the "Karluk" got out of Herschel Island June 30th (Earliest previous date June 28th). Karluk killed eleven whales last summer 18,000 lbs. of bone, the largest bone being about 11½ ft. long.

Mr. Stein's sloop arrived in the morning with a fair (SE) wind. Two or three White Whales have been recently killed in the harbor.

Police now at Herschel Island: Inspector F.J. Fitzgerald, Staff-sergt. Selig, Constables Kinney and Wissenden. Inspector J.L. Jenning going out via Barrow with Karluk. Constable Sam Carter discharged, on pension, Aug. 15th.

Aug. 6 (Sat.) and will stay at Herschel Island the coming winter trapping and trading. Carter gave me embryo (in alcohol) of Killodak (white whale), taken from female killed on harbor last week.

Aug. 7 (Sun.) S.W. wind. Cloudy. Stein unloaded Police freight. I got my goods off the sloop and also unloaded my whaleboat. Strong S.W. gale about midnight.

Aug. 8 (Mon.) Wind S.W. Cloudy. Rain p.m. "S.S. Herman" San Francisco, Capt. H. H. Bodfish master, arrived about 2:00 p.m. and anchored off shore. Time from Point Barrow to Herschel Island, 56 hrs. Very little ice seen a little off Pole and Cross Islands. No mail for me, but a bunch for Mr. Stefansson. Capt. Bodfish agreed to take me to Baillie Island. I got three natives to help me load whaleboat and get stuff on board "Herman". Paid them $1.00 apiece. Sam Carter lost the whaleboat ashore, and agreed to haul it ashore and make it safe for the winter. Gave him permission to use whaleboat for setting nets in harbor, etc. Officers of "Herman": H. H. Bodfish, master; 1st mate Mr. Hunt[illegible]ley, 2nd mate Mr. Allen, 3rd, Mr. Curry; 4th Mr. D. Harris, Boatheader, Mr. Sparks, Chief Engineer, Wm. Walker.

No whales have been seen. Capt. Bodfish said he could have traded all his goods without going beyond Barrow, and had to buy some stuff at Nome.

Aug. 9 (Tues.) "Herman" sailed just after midnight. Wind W. Cloudy. Rain at intervals. Saw small patches of floating ice NNE of Herschel Island. Passed Pullen Islands, faintly visible in distance. Very heavy swell, due to small amount of ice in Arctic Ocean this year. Nothing but small floating cakes seen.

Aug. 10 (Wed). Cloudy all day. Wind NW. Sighted Baillie Islands at 6[th] a.m. Abreast Baillie Island village on NE (Cape Bathurst) sandspit at 8[th] a.m. Three tents seen and our flag flying. Too heavy sea to anchor, and nobody ventured out for shore. Capt. Bodfish said "Will go whaling." Headed NNE for Banks Land. A few Gulls and Ducks seen. No Seals, and no whales. Old whalers say that when no Seals are seen, no whales are around. Stood up to about fifteen miles off Cape Kellett, Banks Land and tacked about, under sail, although steam is always kept up in the boilers.

Seals Whales

Aug. 11. (Thurs). Wind W. Cloudy. Course SW by W. "Raised" whale at 11:[30] a.m. Everybody has been on keen lookout. A bonus of $10.[00] offered to first man who sees a whale which is caught. Four boats lowered. Whale rose & blew three or four times but was never near enough to strike. Whale Bluff (about 10 mi. E. of Cape Bathurst, in sight at 8[30] p.m. Clear.

Bowhead

Aug. 12 (Fri). Clear. Wind W. and WSW. Tacking back and forth, from 15–20 miles off Whale Bluff. "He blows" Two whales raised. First one up to blow at intervals of 1st, 30 minutes, 2nd 45 minutes, 3rd 40 minutes, said to be an unusually long time. Another whale up at intervals of 30 – 10 – 15 – 22 minutes. When up, the whale moves slowly along, the top of back just above water, sometimes just below, making a wake. Every minute or two blowing up a white column of vapor to a height of 8 – 12 feet. After blowing several times, the whale usually "turns flukes", raises his tail out of water and dives down. After seeing a whale "blow" two or three times, the boat steers on

Bowhead

(Size of whaleboats - L. 30' 3" B. 6' 7" D. 2' 5" 289 cu ft.
30' 6' 6" 2' 5" 283 ")

Aug. 12 (Fri.) usually tell the rate at which he is travelling, and the time he is apt to stay below. The boats head for the place of his probable reappearance, keeping a little to windward if possible. When the whale blows again, the boat immediately sets jib and tries to run across the top of whale's head. As the boat passes over, the boat-steerer or bow, thrusts one or two, bombs into his neck. Bombs at end of a lance shaft. Sometimes a shoulder gun is used for bombs. Rope "warp" is attached to lance, 10 fathoms in box, and 100 or more fathoms in tub. Whale often tows boat a long distance if only slightly wounded. When whale rises again he is struck as often as possible. Sometimes a whale is killed instantly with one shot, sometimes 8-10 shots are required. Mr. Curry's boat must broke and crew had to paddle back. Boats down for several hours, but never get near enough to strike whale.

Bombs

Polar Bear

Saw a Polar Bear swimming in open sea about 300 yds from ship - about 20 miles from nearest land Cape Bathurst, and about 5 miles from nearest large ice mass. For some time he paddled along quite unconcerned, until he winded the ship, when he veered away, going out towards the ice pack

1/. Whaleboats lowered for whale. S.S Herman. Off Whale Bluff. 8-50-85. 7h a.m.

Fog in evening. Ran in and anchored near S.W sandspit of Baillie Island. "Kaduk" sighted, and anchored about a mile away.

Aug. 13 (Sat.) Rain at intervals all day. Wind W. Calm for a short time. Slight snow fall about 9h p.m. Moved up

Aug. 13 (Sat.) and anchored alongside "Karluk" Capt. Cottle came aboard. Gave me some letters for Mr. Stefansson. "Karluk" had caught nine more whales this summer, and struck and lost four around Banks Land, all in July. Three small whales and six good sized ones. Total 20 whales in two summers. Two whaleboats came out from Baillie Island, Kittigazuit and Kingaktak's, with most of the native population. People traded most of night. Inspector Jennings transferred to "Karluk." "Rosie H." was here over a week ago, but had left.

Aug. 14 (Sun.) Clear. Calm. Steamed eastward past Whale Bluff and Smoky Mountains, looking for "Rosie H." for which the "Herman" has supplies. Saw many large flocks of Eider Ducks going westward. Found "Rosie H." Capt. Fritz Wolki, becalmed near point about 15 mi. W. of Horton River. Capt. Wolki gave me two letters from Mr. Stefansson, one dated Booth Island April 5. another Cape Lyon Apr. 25.

Substance of letters from Mr. V. Stefansson:

Booth Island, Schr. "Rosie H." Apr. 5. 1910.

"Hope to start from Darnley Bay (Billy, Tawnaumuk and I) for the Coppermine before 25th April. The rest of the crowd I expect to leave at Darnley Bay to go back to Langton Bay just before the snow goes off. Ikomuk is to gather all our stuff if he can, at Langton Bay. I write this thinking I may possibly fail to get back from the Coppermine before the thaws cut off sled travel. In that case we shall have to summer somewhere to the east and get back when we can in the fall. If that should happen, you will do the best you can to prepare for the winter. I have told Ikomuk if we fail to get back to take the boat (umiak)

Aug. 14 (Sun).

"to Baillie Island to meet you, but I write this with Capt. Cook in case Ilav. should fail and you find no one to meet you. There will be no occasion to worry about us before Christmas, 1910. --- There is every chance I shall get to Baillie Island to meet the ships as I want to, but "one never can tell." - - Lindy [dog] dead. -- We now have only three dogs - Dr'anna, Nannuk and Roger and Roger sick at that. But I shall have also T's dog (Poor) and may have one of D's and possibly Pannigabluk's one or both. Having or not having those two (P's) will make the difference between good and little chances of success. Nannuk is so lacking in enterprise that I am sorry to leave you with only him to help in the fall hunt. Nevertheless, try to get a good cache of deer, preferably on the river near where we were this year. If ships come and you succeed in getting some supplies from them you will probably have to land them at Baillie I. --- Better still would be landing the stuff at Horton R. or east of it, at Cora at Parry or in Darnley Bay. -- Post letters for me at as many places as possible telling where you are, in case we don't get back this spring. We may return by the coast or along the tree-line -- I would give almost anything now for a good dog, but there are none to be had. --- If hard put to it, we may try returning by Fort Norman and the Mackenzie R.

"Cape Lyon, April 25, 1910.

"We got here last night. Billy, Tannannuk, Pannigabluk will start east in a day or two ---- Ilav. can tell you details ... If we do not return before fall, and if you have spare grub and dogs handy, try to cache some for us at a wooded place south of Cape Lyon - a mile or two south along the coast. A sack of flour will be enough, tho if you should have rice and tea, a little of each would not hurt - and salt work any rice or oatmeal --- Do not violently neglect your needed pursuits to make this cache. It will hardly be a life-and-death affair with us --- If short of money, don't buy more than. Emphasize flour, rice, with sugar next. Be sure you have enough tobacco and buy .22-30 and other ammunition if ours does not come -- Had to shoot squirrel with Nannuk, as he was getting unbearable in laying down

Sent out mail - letters to American Museum, to home folks, and others, with Capt. Bodfish

P.S. -- Tell Ilav. he would have to be content with what we find, etc. etc. Later ;) "Without himself that I was really very sorry, as with him 20 men would be a hundred per cent better to get out with. Since that day, U.S. shot 13 deer, Billy 11 Nannuk 2 and Tannannuk me. Paddy East with practically no provisions but deer meat. See margin of next page.]

what he would and would not do (or else quit) ... wanted another case of tea,

Aug. 14 (Sun.) A case (1000 cartridges) Winchester 30-40 Govt. which I had received and left at Herschel Island Capt. Bodfish agreed to take in exchange for a case of Winchester 30-30 which he gave me today.

Transferred all my stuff from "Herman" to "Rosie H.", hoping to be landed at Horton River.

Bought from Capt. Bodfish

25 sacks flour @ 2.50	62.50		
100 lbs. cornmeal	$5.00	25 lbs. oatmeal	$7.00
50 lbs. rice	$4.00	34 lbs. tobacco	$21.00
8 gals. syrup	$7.50	50 lbs sugar	$5.00
60 lbs. pilot bread	$7.50	Cloth, knives, files, paper, soap, camp stove, thread, baking powder 6 caps: cod-line, socks, overalls,	Total $148.00

Bought also. 1 block plane $1.50

2 Ingersoll watches $4.00

The goods purchased from "Herman" were transferred to "Rosie H." and put below hatches while I was settling with Capt. Bodfish. Mr. Slate assured me that it had all come over, but on checking up, I found that I got no sugar, syrup or hard bread — $20.00 short, as well as no "sweetening" for one year.

Wind soon freshened from NE. "Herman" decided to remain at anchor until morning. Capt Wolki decided to run at once for Baillie Island, as he had too much valuable stuff on board to risk cruising about. "Rosie H.'s" crew (Jim Hill (head-steers), Cook, and three fo'c'sl hands) went over to "Herman" as their time had expired. Left only "Rosie H." rely Capt. Wolki Mate Harry C. Slate, Jim Fiji, "Old John" and myself, besides Fiji's family wife, mother-in-law, little girl and a Kog-molik boy, Mungilina.

"We are taking 764 Rounds for four rifles — 244 Mannlicher and 30 Savage "303". 200 "30-53" a Winchester (Billy's) and one Marlin. 30-30 and 30 Savage "303". 200 "30-53" a Winchester (Billy's) and one Marlin. We take also a pistol and 200 (30-53) ten base lead and 2 cakes powder. To Capt. Bodfish for his outfit at a price: — stove is almost burnt out. — I am writing Dr. Dunham of Wolki. As W. motor was a different way I found conditions. Two letters and mine went Dr. B. also, saying substance of this — Capt. Bodfish cannot get out as "Herman" is frozen in. Don't neglect cleaning letters all over next fall. Leave one at the Island Kay. I think it along as Stud Kay. You go up Horton River. If so can send you [illegible]

Aug. 15 (Mon.) N.E. wind. Cloudy. Reached Baillie Island at 9th a.m. Succeeded in running in a little beyond point of sandspit and kedged the schooner a little further in. Many fish, hundreds whitefish (Kak tak) caught today. One cub Polar Bear killed on Bathurst Sandspit today. Gulls and Eiders seen, also Old squaws.

Polar Bear

Cape Parry "dates" — from log of "Rosie H." 1910.
Booth Island — 1st Ducks (Pacific Eiders) May 13th.
1st Cranes May 18; 1st Brant May 25. Ravens seen every month during winter. "Rosie H." sailed out of harbor July 22nd.

Aug. 16 (Tues.) N.W. wind. Rain. "Herman" passed Baillie Island, steaming west. Heavy sea. Kedged ship further into bay. Many Terns, Gulls and a few Old squaws.

Aug. 17 (Wed.) Wind S.W. Clear. Capt. Wolki put up a frame store-house, covered with canvas, on shore. Rain and East wind in afternoon. Snow in evening. Unpacked some of my cases — all very tightly packed — nailed, screwed, and rusted tight. Paid "Old John" on account of sweep net bought by Mr. Stefánsson in lieu of dog which died. 25 12-ga. brass shells, 2 ½ lb. Ruck powder, 2 roll #15 silk twine.* Many fish caught today. Natives are packing them away in pits dug in the sand for winter's "rotten" fish. Weather too cold, wet and raw for drying fish without artificial heat, and wood is scarce here — all wood has to be brought in boats.

* Pd. "Old John" later 250 #1 primers, 250 #2 primers.

Aug. 18 (Thurs). Wind SW. Rain a.m. and most of afternoon and evening. Cold, raw weather. 1 bbl, 1 tub (cod) 1000 fish netted today. Started backing my big new sweep net with cod-line. Net to hang 200 ft. & 10 ft. deep, 3 in. mesh.

Aug. 19 (Fri.). Wind SW. Cold rain. Snow at 7 a.m. Helped unload stores from ship into warehouse — 700 sacks flour, etc. Finished backing seine, took it ashore, and attached floats and sinkers; hung about 35 fathoms. Saw a few Short-billed and Sabine Gulls, and Phalarope. Snow and rain in evening. ½ tierce (8 bbl. tierce) now filled with fish.

Aug. 20. (Sat.). Wind SW. Partly clear sky at 7 a.m. Light fall of sleet in forenoon. Helped Old John take 326 fish from three nets in forenoon and 196 in evening — 522. all Kaktak except one Salmon Trout (Kelatk sit). Saw several small flocks of Sanderling (Calidris arenaria) on sandspit, and shot two. Saw several Turnstones (2) one Pomarine Jaeger, and several fine Snow Buntings.

Aug. 21. (Sun.). M.T. +33° F. +39° at 8 a.m. Hazy, clear morning. Light SW wind. Several Old-squaws close to ship. Started for ice house (Belcy's) on SW sandspit in whale-boat, with Mr. Slate, "Jacobone," and Nannamallek, towing Jno Fiji with dingey full of fish (8 bbl. tierce +). Wind shifted and it took us nearly five hours to beat five miles. Ice house in good shape. Some wood on sandspit. Saw a few gulls. Jaegers, Old squaws, Yellow-billed Loon and Jacobone shot a ♂ Pacific Eider on return trip. Wind freshened about 5 p.m. and we made return trip in about (½ hrs. Channel between islands wide but shoal, although there is a deep and tortuous ship channel through.

M.T. +33° F. +39° at 8 a.m. Wind S.W. I have had to suspend Time Service observations for the last two months — Running short in boat allows no spare place to set Thermometers.

Aug. 22 (Mon). M.T. +34° +39° at 10:00 a.m. Cloudy. Wind SW.

M.T. +34°. +39° at 10 a.m. Wind SW

"Rosie H." sailed at 5:00 p.m. going around to outside of Baillie Island to look for wood. Crew. - Capt. Wolki, Mr. Slate, Jim Fiji, Old John, "Jawbone," and Mungalma as cook. Capt. Wolki offered every inducement to Baillie Islanders to get some men to cruise for two or three weeks with him, to look for whales. Everyone refused to go — they are catching plenty of fish, and they also have purchased flour, etc. from "Rachut" and "Herman" this summer. Nobody here feels the necessity for hard work. Although fish are swarming around the island, and one net, tended faithfully, will catch 200 fish every day, the people are sitting around catching but few more than are needed for immediate consumption.

Aug. 23 (Tues). M.T. +36°. Wind SW.

M.T. +36. Wind SW. Little wood seen on outside of island so Capt. Wolki turned ship about and cruised Eastward. Whale raised at 7:30 a.m. about 5 miles off Whale Bluff. Lowered one boat with four men, Mr. Slate, Jim Fiji, Jawbone and Mungalma. Capt. Wolki, Old John and myself left to man ship. Whale spouted several times about ½ mi. ahead of ship, and came up again about ½ mi. West. Boat too far to Leeward to reach him. While boat was beating up again another whale spouted dead ahead. Two whales seen at one time to Leeward while boat was heading. They "turned flukes", as they do just before disappearing. Whale ahead came up again in about fifteen minutes. He moved slowly along, most of the time with top of back out of water and occasionally top of head showing. Head appeared to have an elevation on its top. "Old John" said it was a "steeple-head". Boat turned about and made towards whale, when another whale came up between them and the other whale, 200-300

Bowhead

Aug. 23 (Tues) yards from their lee bow. Mr. Slate ran the boat directly over the whale's submerged head (neck and back exposed). Jim Fiji, thrust one dart gun into the whale's head and another one instantly into the whale's neck, just as the boat passed over. Two muffled detonations reached us as the tomite bombs exploded, a little flurry around the boat, the whale disappeared and boat's crew unshipped mast, and remained quiet.

A strong current was carrying ship, etc. to eastward all the time, and we had to back often to keep near boat. When we got near enough to hail boat, they told us whale had been instantly killed - neck broken - and was suspended by the lance warp (8 fathoms of bow warp out of the boat). We sent them block and tackle and they started to raise the whale, inch by inch. Whale, a large ♂ was killed at 6^h a.m. and was raised to surface alongside at 9:30 a.m. with bow fin made fast around flukes (tail).

Bowhead Whale

*2. "Fluked" whale in tow. 8 - 1/100 - D.S. 10 a.m.
*3. do. 8 - 1/50 - D.S. 10 a.m.
*4. Cutting off whales left "fin" 6·8 - 1/5 - Rem. 2 p.m.
*5. Left side of whale's head 8 - 1/50 - D.S. 5 p.m.

~~Head was~~ Belly brownish gray, fins and back shiny jet black. Mottled whitish area around penis sheath. Whitish along side of flukes; a dusty streak extending along ventral side of flukes. A small mottled whitish area around eye. Throat and ventral surface of lower jaw whitish. A row of black spots along each side of lower jaw. Eye, about two inches in diameter, imbedded in a mass of fat. Belly smooth, some very slight longitudinal corrugations on black skin of throat.

Recorded hole through fin and tried to turn whale over, cutting off bone of lower lip, through fin, and lap

Bowdoin

cuts from each side of base of fin around on back. As we hoisted with tackle from mainmast to top of fin, these cuts were extended around to back, loosening the so-called "blanket piece" of blubber. Succeeded in turning carcass half over, with fin in air, but top of head lodged under ship and we could not raise it further. We decided to turn body back up, so that the "head" (i.e. upper jaw, the portion containing the "bone") could be cut off and hoisted on deck. Wind and strong current kept drifting us Eastward along Coast, and Capt. Woldi decided to give up trying to tow carcass to Baillie Island, as he had at first hoped to do, and made for Horton River with whale in tow. Rigged 6-inch hemp hawser around flukes, and 2-inch warp through fin, towing whale astern.

Aug. 24 (Wed). M.T. +33. No gale.

Bowdoin

M.T. +33°. N.W. Gale sprang up shortly after midnight, with rain. Snow from 7 a.m. to 4 or 5 p.m. Whale's hawser parted when we hoisted mainsail to clear ice pack about 2 a.m. Gale increased, and we ran before it. Luffed a little near Horton River, and seas swept over weather rail, rolling barrels and boxes about the deck. Sailed along Horton River sandspit, and anchored SE. of end of sandspit - 2-3 miles. Fog and rain all day. Many Snow Geese and Black Brant going West in the evening. A few Gulls and Jaegers seen. Mountainside snowing in one place near our anchorage, about 10 ft. above water's edge, about 10 miles S. of river mouth. Heaved anchor and sailed at 7 p.m. Fog having lifted a little to seaward, although dense over the land. Light W. wind.

Aug. 25. (Thurs). M.T. + 35°. Cloudy forenoon. Tacked about all night in open space between shore and ice pack outside. Ice had drifted in much since day before yesterday. Raised Whales carcass at 11h a.m. drifting N.E. between Horton River and Langton Bay. It had drifted about 30 miles from where we had last it some 36 hours before. It was now badly "blasted" (distended with gases of decomposition) and top was 6-7 feet above surface of water. Many Glaucous and Ivory Gulls around carcass. Whalers say that a sunken Whale's carcass will "blast" and come to the surface within 18 hrs. invariably; then called a "striker". Sometimes the whalebone drops out in two days, sometimes remains in for a year. This carcass smelled putrid, gas bubbling out through every gash in blackskin, and foraging out oil from the blubber which trickled down, making a broad area of "slick" water for miles in its wake. In fact, the "slick" was sighted today before the whale was seen.

M.T. + 35°
Wind N.W.
Cloudy.
Fog.

Forehead

Whales do not usually sink when struck. This one was killed just after he came up to breathe, had only spouted once or twice, and hence had little air in his lungs, not enough to float him. Capt. Wolki says that once the "Belize" raised a Whale from the bottom off Herschel Island, sunk 90 fathoms.

Whale's penis projecting about 7 ft. today, about 8 in diameter at base, tapering gradually to a point. Sheath projecting about a foot, color brown, mottled with pink and white.

*6. Cutting off Whale's lip. 0 - 1/5 Cloudy. 2 p.m. Calm from 8 p.m. to 2 a.m. Rigged tackle to "hand iron" (harpoon), fixed in tip of head, raised head, and at

Aug. 25 (Thurs) same time turned carcass half over, with triple tackle attached to anchor winch. Cut off lips in segments with blubber spades, loosened "whale-bone from upper jaw by digging and prying, and finally jerked out bunches of three to ten slabs at a time with block and tackle, and hoisted them on deck. Whalebone firmly imbedded in a layer of "gum", fibrous whitish cartilaginous structure about 8 in. thick, base of bone imbedded in a layer of reddish membranous tissue called the "oyster" by whalers. Good weather and we worked all night. Removed 252 slabs of "head bone" (bone growing on upper jaw) from one side, the shortest pieces, from tip, and front angle of jaw, being about 2 ft. long, the longest (from middle of jaw) about 11 ft. long. Estimated weight of bone 1800 lbs. Whalebone is removed only from upper jaw. A thick growth of short fringy bone is found in the throat, called "throat bone," but is difficult to get at, and not of much value. Usually "throat bone" is not taken.

Length of whale, as near as it could be measured along side of ship — 57 feet. Head about one-third of the length (impossible to demarcate head from body exactly.) Whalebone weighed 2100 lbs. (in spring) F.W.

Aug. 26 (Fri) M.T. +33°. +36° at 5 a.m. Wind W. by S. Clear after 5 a.m. While "cutting in" whale, about 8 hrs. work, we had drifted into a bight about 10 mi. W. of Langton Bay, where we anchored. Capt. Wolki cut off enough "muktuk" (black-skin), and blubber, for winter's dog food = blanket-piece, one fin, the flukes, &c. The black-skin of fluke is said to be the best eating. Fresh black-skin boiled makes delicious eating, cut into strips with about ½ inch of blubber adherent. After two or three days the black-skin

M.T. + 33°. +36 at 5 a.m. Wind W. by S. Clear a.m.

Aug. 26 (Fri.) becomes rather tough. It is often boiled then pickled in vinegar and eaten as a relish. Fresh whale meat is very good, although a little tough. It tastes much like beef – has no strong flavor like seal meat.

Bowhead

*1. Cutting out Whalebone. 6.8. – ⅕ – B.S. 4[30] a.m.
*2. do. " " " "
*3. Whale's (Bowhead) flukes. 68 – ⅕ B.S. 9[30] a.m.
*4. Front of Whale's head (bone removed). 8 – 1/50 – B.S. 10 a.m.
*5. do. " " " "
*6. Smoky Mountains. 10 mi. W. of Langton Bay. 8 – 1/50 – B.S. 10 a.m.

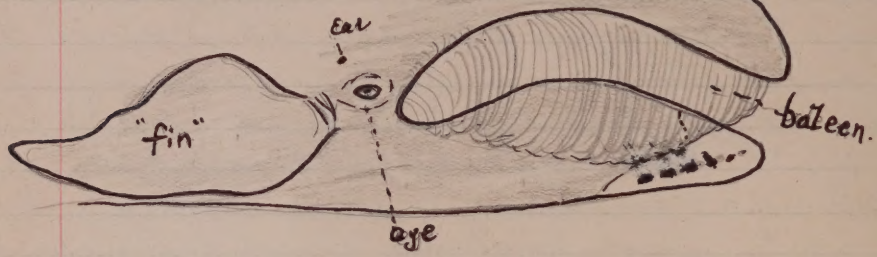
Wind WSW in afternoon. Sailed NW in afternoon (Capt. Wolki agreeing to land me at Horton River, as he did not like to run down to Langton Bay. Several Seals seen. Calm in evening. (See next page for sketches of whale)

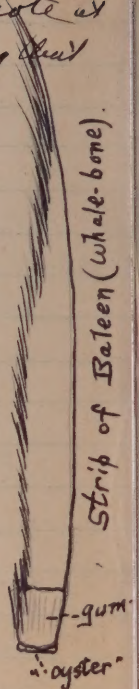
Aug. 27 (Sat.). M.T. +33. M.T. +33° +35° at 12m. +33 at 8p.m. Did not get very far up Coast during night. Breeze freshened from NW at 2[00] a.m. and ice pack drifted in nearer to shore, so we had to make short tacks. Rain, fog, and snow in forenoon. Turned about and made for Langton Bay Harbor. Reached Harbor in afternoon and anchored inside sandspit, 6 fath. 150 yds. from shore. Mr. Stutz says there is 14 fath. off point of sandspit. Shoal near ice house head of lagoon. Set two nets. Saw 9 W-w Scoter and six young in harbor (all able to fly). Sabine Gulls, Short billed Gulls, Old squaws.

Found goods all right in house. Letter from Ilavinirk, dated July 30, stating that he had killed four Caribou (skins in house), one Brown Bear. (meat in ice-house. He invited all and sundry who showed come, to help themselves to meat. Said he was going "numame" (Horton River). Kutakak told me

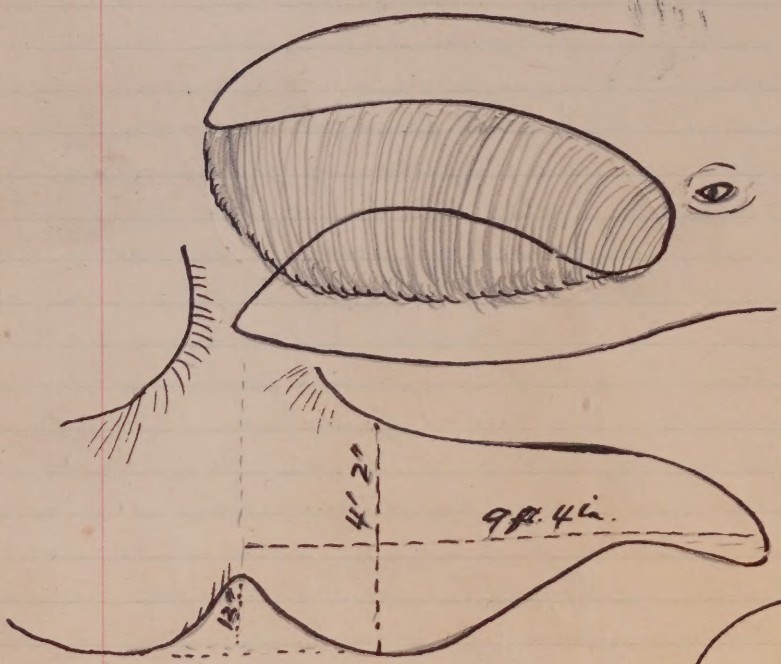
Caribou Bear

Aug. 27 (Sat.) at Baillie Island, that Ilavinuit had left a note at F. Wolki's house, at mouth of Horton River stating that he had gone up the river with umiak

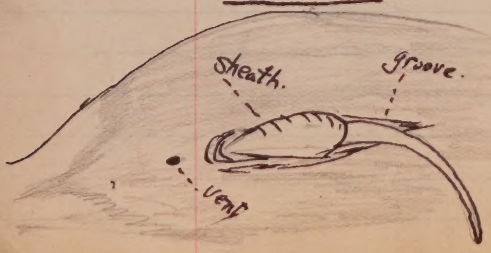




↑ Bowhead Whale.



Fluke ↑



12 ft. 4 in. = 10 ft. 4 in. around outside curvature

Right Flipper or "Fin"

Aug. 28 (Sun.) M.T. +32°. Snow, rain, fog. Wind strong NW, and W by S. SW, and back to NW. Much ice has drifted in from NW, practically blocking the entrance to the bay. Found one Herring (large-scaled, like Yarmouth Blowter), four Salmon Trout, and fifteen Whitefish in nets. Landed my stuff, three dinghy loads, from ship to whaler's house here; Jim, Fiji and Jacobus helping me.

M.T. +32° Snow, rain fog. Wind NW, W by S, SW & NW.

Aug. 29 (Mon.) M.T. +33°. Wind NW. Cold rain. Went up along coast with Jim. Slate. Found huge piece (6' × 6') of whale's blubber washed on beach about 1 mile from ice house. Cut it up and hauled it above tide level. Went down to end of cliffs which terminate at sandspit, about ½ mi long, at entrance to a big lagoon. Head inland a short distance from here. Saw three Whistling Swans in little lake, and stalked them unsuccessfully. Too dark (9 p.m. on cloudy day) to shoot well with rifle.

M.T. +33° Wind NW. Rain

Aug. 30 (Tues.) M.T. +36. +62° (in sun) at 7 a.m.. Wind SW. Clear. Moved my sleeping gear and remainder of baggage on shore in morning. Bought 2 gals. molasses from Capt Wolki for $2.00 and 50 lbs. sugar from "Old John" Kuhl for two deer-skins and one fawn-skin. "Rosie H." had some difficulty in getting out of harbor. She heaved anchor but made too much leeway and nearly drifted on sandspit. Dropped anchor again, kedged out and got under way outside about 5 p.m. I was left alone on the beach to play "Robinson Crusoe". With the ship at Baillie Island, there is no known human being within 90 miles. I suppose Jarvinit is at Baillie Island by this time with the umiak. He should be back in about two weeks.

M.T. +36° +62° (in sun) at 7° a.m. Wind SW. Clear.

Aug. 30 (Tues). Walked up along coast (West) for about 2½ miles to see if I could see any trace of the Whale's carcass which we had set adrift Aug. 26. Found it ashore about ½ mi. W. of entrance to lagoon. As I came nearer I saw large numbers of Gulls hovering about, and a Polar Bear on top of the carcass, busily gorging himself. I worked in behind a little ridge of gravel between sea and lagoon, just high enough to give cover. When about opposite the carcass, about 200 yds. inland, I peered over the top of the ridge, and saw the bear still at work, half hidden by stump of right fin which stuck up vertically. I started to crawl up, when the Bear evidently got my wind & scrambled down and came towards me to investigate. When he came shuffling along towards the top of the ridge, he stopped to look around, exposing his left side. I fired one shot, which tumbled him completely over, but he soon got up, staggered about 30 ft. to the water, and out about 20 ft. into the water. I gave him another shot in the water, which proved unnecessary. The first shot had entered just back of the left shoulder, a little in front of the heart, making a small hole, tore things up inside, and barely penetrated the skin on the opposite side.

Polar Bear

#428 ♀ Thalassarctos maratimos. L. 67 in. T. 6 in. H. foot 9 in. The carcass was floating, and going out with the tide, so I had to strip, wade out waist deep, make rope fast, and haul him ashore. Body was too heavy to haul up on beach, and too "floppy" to roll over, so I had to skin him standing half knee-deep in the water. Not a large Bear, about two years old. Skin fairly good, slightly yellowish

Aug 30 (Wed). Skinning the Bear took me about two hours and about two hours more to "pack" skin to ice house. Reached house about 11.30 p.m. Dark about 9.15 p.m. now.

Aug. 31 (Wed). M.T. +36°. Cloudy. Wind NE in morning and SE. in afternoon. Shot a Red-throated Loon (full plumage) in lagoon, with rifle. Last night I set up the Bear's Carcass, and piled it above tide level, covering the meat with large blocks of ice. Right whole carcass is lodged nearly full of large ice cakes. Packed two loads (about 250 lbs) of meat, and head and feet, to ice house. Good number of Gulls, mostly ~~Glaucous~~ Glaucous-winged Gulls and Sabine Gull, a few Glaucous Gulls and Jaegers around Whale's Carcass. Saw several flocks of Old-squaws and one Green-winged Teal in bay. Duck Hawk perched on cross near ice-house. Saw two Ravens, one on hill-side about 1 mi from ice-house the other at sand-spit new carcass, both so gorged, as to be nearly unable to fly. They were very tame and I approached within 3 dyds. Gulls were also gorged, and flew heavily away. A few Lapland Longspurs and Snow Buntings seen on sand spit. Marmots very abundant everywhere. While I was lying down resting, with pack of meat beside me, a Marmot ran up, and sat on his haunches, with forepaws hanging down, looking his head at me, across the meat pile, not six feet from me. When I made a move, the Marmot scampered away, badly frightened.

Large flock of Snow Geese passed over tent about 7 p.m. flying low, going west.

M.T. +36° Cloudy. Wind NE a.m. and SE p.m.

Sept. 1 (Thurs.) M.T. +30°. Clear A.M. +~~60°~~ 53° at 2h p.m. Wind SE.
M.T. +30°
+55 at 2 p.m.
Wind SE a.m.
Clear.
Cloudy p.m.

Cloudy in afternoon. SE. wind carried into lagoon much large ice which has collected at entrance during NW winds of past few days. My fish net broken in two by mass of ice, and outer half carried away. Hauled in remainder of net and found no large Whitefish. Packed remainder of Beals meat, two heavy loads, to ice-house, also two pieces of Whale's lip (about 75 lbs.) which I found on the beach. Saw many Gulls, Old-squaws, Long-spurs, and a few Ravens.

Weasel

Two thin seams of finely crumbled bits of black lignite between layers of fine sand, about 40 ft. above sea level in bluffs, about ½ mi. east of ice-house. Caught a young Weasel in trap in house today - about half grown, back brown, belly yellow. Hung him up by neck, apparently dead, but within half an hour, he had revived, and got away.

Sept. 2 (Fri.). M.T. +40°. +45° at 12h m. Steady rain all day.
M.T. +40°
+45° at 12 m.
Rain all day.
Wind SE (light)

Fog in evening. Remained in camp all day. Several Blue-bottle flies in tent today, and many small Black Flies or Gnats. The latter are very annoying, as they sting painfully, leaving a white swelling at the place where one is bitten. Numbers of small black spiders also seen in tent. Matted grass on sandspit about house intersected by mouse runways. Capt Wolki says that when the ships first came here there was no grass on sandspit. Now there is a thick growth around the house, somewhat bunchy, and clumps all along the sandspit.

Mouse

Ruins (foundations) of two old Kogmollik houses on sandspit near whalers house. Slightly elevated mounds

Sept. 2 (Fri.) with a dozen or more Bowhead Whale skulls (occipital bones) arranged close together in sub-circular form, now nearly buried, but usually occipital condyles and part of basi-occipital above ground. "Jawbone" told me that the old woman Panegiyuk at Baillie Island (mother of Iritucrat ("Rambler") and grandmother of Alingrat ("Freeman") used to live in one of these houses.

Sept. 3. (Sat.) M.T. +37° +42° at 10 a.m. Cloudy. Wind N.W. Wind blew a living gale during the night, but lowered after 4 a.m. and rain ceased. The ice is continually grinding and crunching on one side of sandspit or the other, the floating masses carried in or out by the tide rub and pile against the grounded ones. "Boiled up" my cloth shirts and underwear today, as there has recently appeared evidence of animal life in the seams thereof. The old "spare bunk" on the ship seems to have many tenants still. Sprinkle of rain in evening.

Sept. 4 (Sun.) M.T. +39° +40° at 10 a.m. Cloudy. Fog. Calm a.m. Mist coming over. Dead calm during forenoon. Cloudy and foggy. Set some more traps for marmots and Weasels around the stage-house, also the mouse traps. A few Old-squaws hang around the end of sandspit Red-throated Loons calling "Kak tjauk!" One Raven flew over. Am going west to look at Whale's carcass again. Many Short-billed Gulls around carcass. Fresh Wolf tracks from ice house west. Tried to cut off some whalebone from a little bunch left near tip of upper jaw. Slipped off from Lower Lip and fell into water waist deep. Cut off one small slat of bone, but the rest was too tightly set in gum to get loose.

Sept. 4 (Sun.). Went inland a little way, towards end of Lagoon. Saw seven Yellow-billed Loons (*Gavia adamsii*) swimming together. Fired with rifle, all dived, coming up scattered out 100 yds further out. Four loons flew lowly. Followed string of small Lakes behind hills to south side of Harbor Lagoon. Many old stone graves on tops of barren rock and pebble-besteem hill tops around head of Lagoon. Graves are on top of ground, the corpse evidently having been boxed in by flat slabs of stone set on edge, and rounded and irregular stones piled on top. Several appear to have been opened at least the top, and a few much weathered bones were scattered around several graves, — phalanges, ribs, vertebrae, pieces of pelves, etc. Picked up part of brain case and part of a reddish stone cutting implement on ground near one grave. Started up a very large Arctic Hare (Gray mostly, some white) in little ravine back of graves. He ran about 100 yds, stopped, I fired, and Hare plunged down gully, apparently wounded but I failed to find him again. A few Lapland Longspurs and Savanna Sparrows, also three Snow Buntings seen.

Arctic Hare

House

Spermophile

Two mice caught in traps near tent, baited with bits of smoked fish. Red Squirrel on top of house.

♀430. B House - 134 - 25 - 20 mm. ♀431. B House 128 - 27 - 20 mm

Sept. 5 (Mon.). Cloudy forenoon. Fog on hills. Piled up heap of dry
M.T. +32. wood beside house so as to have some for winter
7 37° at 10 a.m. camps. Wood hard to find here when snow is on the ground.
Cloudy a.m. Boarded over and shingled the two large sky lights in
Wind NE. store house, also shingled over stovepipe hole. Plenty of old
Clear p.m. shingles on ground. A few Old Squaws seen, one flock of
Cloudy eve. seven Brant, several Longspurs and a few Gulls. Sun came
Wind NE. out bright and clear from 1 to 5 p.m., and I took four pictures

Sept. 5 (Mon.) "Camp"
*1. "Robinson Crusoe" Langton Bay. 8 – 1/50 – B.S. 4 pm
*2. Old Whalers House. " " " " " "
*3. Ruins of old Kogmallik house – foundation built of Bowhead Whales' skulls. 8 – 1/50 – B.S. 4 pm.
*4. Bowhead Whale's skull (basal portion) & posterior aspect. 8 – 1/50 – B.S. 4 pm.

The sea as far as I can see appears to be full of ice, mostly small cakes and a few large masses jammed in some places and in others floating with wind and tide. The floes are continually grinding and crushing, making a continual roar – day and night. Occasionally a huge mass breaks off or upsets in the water, making a loud report. The sudden and frequent weird and uncanny noises around my tent get on my nerves sometimes, as I am entirely alone, without even a dog to give warning of the approach of bears, et cetera.

*432. ♂ Mouse. 125-27-19.

Mouse

Sept. 6 (Tues.) Bright, clear morning. Strong S.W. wind blowing. Stuffed specimens. Overhauled gear in store house. Calm in afternoon. Wind freshened in evening, about 7 pm. and was blowing a howling gale before midnight, threatening to blow down tent. 1 am S.W. A few Ptarmigan squawked. Gulls and Long-spurs seen. Caught ♂ Marmot in trap.
*433 ♂ Spermophilus parryi. 450 – 122 – 54 +2.

M.T. +30°
+36° at 8 a.m.
+5° at 2 pm.
Wind S.W. (Strong)
Clear
Calm pm.
S.W. gale in ev.

Sept. 7 (Wed.) S.W. Gale from midnight to 4–5 am. Wind moderated a little after 5:00 a.m. Cloudy. Marmot caught in trap close to tent in early morning. He made a great racket, scolding, chattering and squealing. Another Marmot came out and attacked him, and they

M.T. +42°
+[illegible] 7 am
Cloudy.
Wind S.W. Strong

Sept. 7. (Wed.) Wind NW p.m. +50° at 7 p.m. Warmer.

rolled over in a tangle growling, snarling and snapping like two dogs. The second (the aggressor) went away for a little while but soon came back and renewed the combat. They would fight for a short time, then the free animal would circle about the trapped one, looking for an opening where he would pounce in. Finally he went away, leaving the trapped animal stretched out. I came up, and found the animal trapped by one hind foot only. His back was badly torn and gashed, bleeding in several places, and a great hole in belly through which most of the intestines protruded and were strung out on the ground. One other marmot caught in trap by wall of house, and one Mouse in Wind shifted suddenly to NE. at 9⁰⁰ a.m. and then soon to NW. Sky cleared a little. Caught 3 Mouse

Spermophilus

*434. ♂ Spermophilus parryi. 430-118-65.
*435. ♂ Mouse. 132-36-20.

Sprinkling rain in evening. 6-8 p.m. Warmer. Light NW wind. +50° at 7⁰⁰ p.m.

Sept. 8 (Thurs. M.T. +35. +37 at 12 M. Wind NW. Light Calm midday Wind NW p.m.

Cloudy morning. Light NW wind. Sprinkles of rain at intervals during day. Spent another two hours sewing a whitefish skin patch on water-boot sole — an almost daily job. Cleaned up guns — continued damp weather rusts them badly. Saw Surf Scoter off point, and few Old-squaw, Gull. Four ravens on ground near tent, fired at them but missed. Foggy afternoon. Rain in evening, quite heavy. Caught one Mouse and one Weasel. Think it was same Weasel that was in trap Sept. 1 as one hind leg was bruised and sore

Weasel

*436 ♀ Weasel. -260-71-40
*437. ♂ Mouse. 145-37-19.

Many masses of large ice-cakes in bays.

Sept 9 (Fri.)
M.T. +32°
+34° at 8 am
Wind NW. light
SE 8 am.
Rain all night
Snow a.m.

Heavy rainfall during most of night. A good deal more ice came into the bay last night - a striking contrast to last year, when Mr. Stefansson found Franklin Bay and Langton Bay free from ice during month of September. Large 24th snow-flakes falling at 7 a.m. Ravens flying over sandspit; two Short-billed Gulls, four or five Snow Buntings, several Lapland Longspurs. Frog over the land. Caught two mice - 27 small traps out, and 7 large "Rat" traps, 6 steel traps.

Museum

*438. ♂ Mouse. 130-21-3a *439. ♂ Mouse. 120-24-3b.

In afternoon worked on house - shovelled out entrance on south side; much old sod banking had caved in around door. About 7 p.m. came around house and thought I saw a wolf near house - it proved to be a new brindled dog of Ilavinirk's, and the Ilavinirk family (Ilavinirk, Mamayauk, Kousbuk, and Palaigut) was seen wading canoe around end of sandspit. All seemed much rejoiced to see us - they had seen no people since leaving Banks Island last May. Ilavinirk had gone to Horton River (Wolki's igloo) in July, and brought remainder of our stuff to Langton Bay. He had killed one Barren Ground Bear Cub in the spring (April 28) and four Caribou in July. Later he had gone to east side of Langton Bay, ascended a small creek, and hunted deer on the flat lands over towards Darnley Bay. He had killed forty Caribou in August and early September - all good skins (short haired) for clothing. He had several bales of dried Caribou meat, and several bales of deer fat (about 300 lbs). Also had fresh meat of the last 3 deer killed (Wednesday Sept. 7). The back-fat of one large buck weighed 39 lbs. He had put up one large and one small poke (seal skin bag) of seal oil in the spring. Said he had seen a flock of Snow Geese and several Little Brown Cranes on east side of Langton Bay yesterday.

Langton

Sept 9 (Fri.). He brought along a big bundle of old implements which he found in ruins of an old King Eskimo wooden house on E. side of Langton Bay — bone seal and whale harpoon heads, bone deer heads, deer horn ice-picks, stone ulurak's (woman's knives); bone knives with bone handles, and other unknown implements. He says there are three old houses on E. side of point across bay from Whaler's Harbor, but he only examined one. No metal implements in the lot, although Mavinuk says he found one piece of copper.

He shot one Yellow billed Loon here in June 22nd and preserved skin for me. Says that there were many Black Brant this summer on flat land towards Dalrymple Bay. Killed some on East side of Langton during moulting season. Eider Ducks used resting on sandspit here. Took many Eider's eggs on Horton River sandspit in July, birds all nearly ready to hatch. Many Rock Ptarmigan around Langton Bay in spring, but few Willow Ptarmigan. Saw two Brown Bears (at last) on hills back of Harbor, but could not find them when he went across after them. Few Seals killed on ice here last spring; many seen, but ice was too smooth, giving no cover for approaching them.

Seal

He says that Tannaumirk (of Stefansson party) killed 4 Brown Bear on the ice near Cape Lyon in latter part of April.

Brown Bear

Explained that he did not come to Baillie Island with boat as agreed last spring, because there were head winds most of the time; and that he was looking for ships to come to Langton Bay (3rd) that he thought it would be better to hunt deer during the summer and come to Baillie Island with deer in the fall to look for me. Other reasons ad lib.

Sept. 10 (Sat)
M.T. +24°
+30° at 8 a.m.
+35° at 2 p.m.
Cloudy a.m.
S.W. Gale
+34° at 6 p.m.
Rain p.m.

Coldest night this fall. Ground frozen on top this morning. S.W. Gale, raising tide very high. Iglaumiut flooded out of camp on edge of lagoon, and had to move to higher ground. Wind variable for a little while in forenoon, but settled in S.W. again, strong in afternoon. Worked on house, moved partition made to make store room larger and living room smaller, reshingled part of roof and made a new skylight. Also re-banked part of wall. Intend to use house for occasional stopping place during the winter. This is a bad place for tent dwelling, as sudden local gales and blizzards spring up at all times. Saw a few Ravens, Gull and Longspurs. One Wolf in trap.

Sept. 11 (Sun)
M.T. +31°
+39° at 8 a.m.
Cloudy.
Wind S.W.

A little warmer today. Took half boat load of meat to ice-house. Stored dried meat in house. Spend most of day cleaning fat from Polar Bear skin. The thick layer of stringy adherent blubber had to be pared and shaved off with sharp knives. Wind too strong to go up to whale carcass with boat.

Sept. 12 (Mon.)
M.T. +34°
Cloudy.
Wind W.N.W.
Slight rain p.m.

Fairly strong W.N.W. wind. Entrance to Bay nearly packed solid with ice, many large bergs. Much ice all the way to lagoon W. of Bay. Iglaumiut Palai'yuk and went over to whale's carcass and spent several hours cutting out about a boat load of blubber. The Gulls have picked off mostly the muktuk (black skin) from upper surface, but we cut off some good pieces from sides under water. Great numbers of Gulls (L. glaucus and L. glaucescens) around carcass and on little ponds near by. Shot seven young Gulls (both species, mottled grey plumage, L. glaucus being much legalgy) the

Sept. 12 (Mon.). The young Gulls are fat and tender now — very good eating; as large as the adults. Adult Gulls are often rather tough. Shot also one Raven which came over a dead horse; several seen. Returned over the hills, to avoid heavy walking on soft gravel beach. Saw several flocks of 10-15 Rock Ptarmigan (Lagopus rupestris) in scrub willow and on grassy patches among the hills. Rather tame, and I killed nine. Plumage of males and females much the same now, all white below, and back about half white, spotted with patches of dark summer plumage. The summer plumage of male has feathers of back marked with finer lines; female more spotted with coarser lines. A few Lapland Long-spurs seen on sandspit and 1 female Squaw in Bay.

*440. ♂ Lagopus rupestris. *441. ♀ do *442. ♀ Larus hyperboreus jun. *443. ♀ Larus glaucescens. ♀ jun. *444. ♀ Corvus corax principalis.

Sept. 13 (Tues) M.T. +33°. +37° at 2 p.m. Wind NE. Cloudy morning. Wind NE. Calm in afternoon. Very light SE in evening. Misty rain in evening. Skinned specimens and worked on house. Two mice caught in traps.

Mouse.

*445. ♂ 166 - 42 - 21. *446 ♂ 123 - 28 - 20.

Sept. 14. (Wed.) M.T. +28° F. +26° at 5 p.m. Cloudy. NE wind. Rain in eve. Cloudy, cold day. Light NE wind. Continued work on house, making bunk, door, entrance way, and banking same with turf. Caught one mouse in trap and Polaigut snared one. Seven Swans flew in from Eastward and alighted in lagoon. Occasional Gulls and Loons seen. Flock of 12-15 Snow Buntings on sandspit in morning. Chased them for a long time but

Sept. 14 (Wed). they were wary and I could not get near them. Palaiyut went out on hills in morning and shot one Red-throated Loon (juv.) and nine Rock Ptarmigan. Many Rock Ptarmigan seen. Plumage about half dark (summery and half white, winter) now; birds fairly plump and fat. Boy shot a Seal in lagoon, but it sank at once leaving only a "slick" of oil and blood.

Skins

#446 ♂ Lagopus rupestris. #448 ♀ Lagopus rupestris.
#449 ♂ house 126 – 26 – 19.
#450 ♂ " 95 – 22 – 17 (juv.)

Sept. 15 (Thurs). M.T. +20°. +23° at 9 a.m. NE. wind. Cloudy. Cold morning; cloudy, raw. Young ice around edges of bay. Ground frozen on top. A few snow-flakes flying. Mountain tops white, lowlands no snow. One house in bay. 9 a.m. three in afternoon. Hard sleety snowflakes, like grains of rice, flying all day.

Skins

#451 ♂ 131 – 25 – 19.
#452 ♂ 120 – 25 – 19.
#453 ♂ 133 – 32 – 21.
#454 ♂ 128 – 28 – 19.

Seal seen in lagoon, a few Old-squaws.

Sept 16 (Fri). M.T. +20°. +23 at 8 am. Clear. SE wind. Cloudy. Snow-flurries. Bright, clear morning. Strong SE wind. Moved into house. Our boat in traps. Strong wind does not appear to move ice off shore. We have been wishing for SE wind to move heavy ice off shore to westward, so that we can get the umiak through to whale's carcass and bring a load of flubber and meat to ice house. Palaiyut and Mamayauk went out hunting in afternoon and shot eight Rock Ptarmigan. A few Gulls seen. Spread out all Caribou skins to dry on ground – 43 killed since August 6th. all good short-haired skins, except three killed Sept. 7th. #455 ♀ L. rupestris.
#456 ♀ " "

Sept. 17. (Sat.). M.T. +23°. +34° at 7 a.m. Cloudy. until 8 a.m. Sleety snow. Calm pm. NE. wind 10 pm. Snow 9 pm.

Fair breeze from SE. Snow during night enough to whiten the ground a little. Mountain tops were white yesterday. Everybody moved into house today. Ice moved off shore a little during the morning and at noon we started with the umiak, which we had left to dry on shore near ice house, to get the meat and blubber which we had cached on shore near the Whale's carcass. A broken mass of large ice cakes (round rising 15 ft. out of water) nearly filled the bay, but as the large cakes usually grounded in deep enough water to allow us a light draft channel inshore, we managed to worry through the smaller cakes a little beyond the end of high bluffs. Here we found "young ice" from ± to 1 inch thick, between the large cakes, and we had to break a way through. Young ice nearly strong enough to bear up a man, and it had to be broken by a man sitting on the bow of canoe and treading down the ice. As we pass the passage was blocked and we had to drag the canoe over. Few gulls around carcass today; a few bedsquaws seen. Cut off a little more blubber and "black-skin," and a small bunch of baleen from tip of upper jaw. Loaded boat with over a ton of blubber, meat &c.

Calm as we rowed out, but before we started back, wind shifted to NE, bringing ice in a little bit. Fortunately tide was at low ebb, so it could not bring ice further inshore. Succeeded in finding a narrow lead to windward after spending nearly an hour chopping a way through an ice barrier, with blubber-spade and ice-pick and badly straining the boat's keel in dragging the loaded boat across. Saw a large white Arctic hare running up gully about a mile west of icehouse. Loomis fired twice, striking over just above and one below.

Arctic Hare.

Sept. 17 (Sat.) It was nearly dark when we reached the ice house, so we only packed about 400 lbs. up the hill, unloaded the remainder on the black hauled up umiak and went home. Colder in evening. Brisk NE wind at 9 pm. and rain had changed to snow.

Sept. 18 (Sun.) M.T. +28° +28° at 7 am Clear Wind NE Cloudy p.m.

Clear, bright morning. Strong NE wind. Ground partially white with snow, and covered with sleet. Took small sled to Bubbel Creek, and hauled Bubbel to ice house. Put a load of wood into canoe and paddled to Whaler's Harbor House. Rather heavy sea running. Hauled up umiak near house to dry. finished boat work for this season. Big hole worn in uggyuk skin of bottom yesterday gravel had worked between skin and frame, in bunches, and these places easily worn through when boat was dragged over sand & ice.

* 457. ♂ House. 13 - 32 - 2a

Slavinuk went down to ice house in evening, to close door, which we had left open today to freshen it up, and to freeze a little more, if possible. Meat is only very slightly frozen, and moulds very quickly. He shot a ♀ Arctic Hare on hills a little beyond ice house. Hair pure white, except for a little brown on forehead, and black ear tips.

* 458. ♀ Arctic Hare. 180 - 57 - 155.

Sept. 19 (Mon.) M.T. +25°. +28 at 7 am +30 at 12 m. Wind NW.

Clear morning. Bright at intervals during forenoon. Cloudy at other times. Foggy & westward at noon. Strong NW wind. Skinned Hare in morning. Skinner took uggyuk skin cover off the boat and hung it up to dry. Finished banking house - sides and roof. Turf frozen hard on top, - sand gravel below unfrozen. Furious snow-squalls alternating with bright sunshine at intervals during afternoon.

Sept. 19 (Mon). A few Gulls flying over the sandspit occasionally. Boy shot one young Glaucous Gull. Caught a Cat & fat ♂ Marmot in trap. Few Marmots seen for several days.

Sept. 20 (Tues) M.T. +24° +28° at 7 am. Cloudy. Wind NW. strong.

Cloudy day with brief intervals of dull sunshine. Strong NW wind. Made an elevated rack for small frame to rest upon. Last winter it stood on ground, and Wolverines or Foxes chewed off several ribs, etc, to get at rawhide lashings which hold frame together. Two Mice in trap this morning. Out in afternoon. Saw very few Rock Ptarmigan. Killed three ♂♂ ♀. Also saw a few Gulls, 1 Raven, 1 Longspur, 1 Marmot.

Sept. 21 (Wed). M.T. +24° +25° at 7 am. Clear. Wind SW. +25° at 6 p.m.

Clear, bright morning. Strong SW wind. Very little snow or sleet on low hills; mountains more covered. Start inland today, with packs, and light sled. If sled can not travel shall cache it & return. Taking a little dried deer meat, flour and tea. Three rifles and 2 guns. Shot gun.

Took two pictures. #5. Party, with packs, starting for Mt. 10 a.m. #6. Langton Bay house, from South. 10 a.m.

Started for mountains at 10 a.m. Saw Short-eared Owl (Asio accipitrinus) near ice-house. Set two large traps (for Wolverine) in ice-housed entry, between the two doors. A very little snow along edge of sandspit. Heavy sledding over sparsely grassed hill tops near coast. Tops of hills usually fine sand or clay, with scattering sharp stones and rocks. Entered bed of a small, very crooked creek, about S. from Harbor. Some ice in creek with water

Sept. 21 (Wed.) five or six inches below, sled pulled easier. Crossed a series of broken gullies at side where bed of creek was too rough. Mountain top with more grass, fairly snow-covered - some ravines with 3-4 ft of snow. Found Ptarmigan seen on sandspit, and one on Mt. side. many Gulls on little lakes; a few Ravens, Snow Buntings and Lapland Longspurs. Marmots often seen but not numerous. Recent traces (last month?) of Barren Ground Bear digging out Marmot holes.

Lakes on lowlands unfrozen, on mountains about half frozen over. Ice from 2-3 in thick along sides. While Langton Bay entrance for about 2 miles out, is packed full of ice, the sea to north and west (Franklin Bay) seemed to be entirely open.

Reached top of mountain divide about 5 p.m., having to unload sled and "pack" up some rough places. Camped about 6 p.m. near small lake. Fresh willows for campfire. Light SW wind in evening.

Country to eastward of Langton Bay is seen to be low and flat, dotted with innumerable large and small lakes. Mountains seem to approach nearest the coast towards Darnley Bay. Travelled 8 hrs. today. Four dogs - "Shuk & Bruno" ♂ (Ikoviuk's), "Red Cat" ♂ (Stefansson's) "Booth Island" ♀ (Ikoviuk's, but from Kutakuk), and "Panijak" ♀ (Tanannuk's). Panijak dropped nine pups today - two ♂'s kept - named "Sport" and "Lindy".

Sept. 22 (Thurs). Moved south about six miles, from 9 a.m. to 1.30 p.m. in somewhat irregular fashion, making many detours for lakes. Country appears somewhat flat to southward with several creeks indicated by lines of brown dwarf willows. Saw one pair of Rock Ptarmigan and killed one and found more from another flock of about fifteen.

M.T. +25°. +28° at 8 a.m. Cloudy all day. SW wind.

Sept. 22 (Thurs). Two of three Snowy Owls seen, a few Marmots seen and one killed. Stopped in little creek valley to boil tea about 1:30 p.m., making fire of small dirt twigs and roots. Ascended high hill near by, and sighted a band of 60 Caribou 2 to 3 mi. to SE. grazing, and moving slowly east. Put up camp, and started after Caribou at 2:30 p.m. Caribou had moved about a mile east before we overtook them. Saw White Fox about 100 yds. away, carrying Marmot in mouth; several flocks of Lapland Longspurs, and a few Snowflakes. One flock of Rock Ptarmigan seen, very tame, allowing us to approach within 25 yds. then flying about 100 yds. Plumage is now about 3/4 white, quite protective on patchy snow, as black spots of earth show everywhere.

Caribou

Fox

Caribou

Of the Caribou but two bucks were lying down at 4:00 p.m. These two Bucks continually made feints at fighting, side-stepping each other, and lowering antlers. Crossed small lake by crawling on ice, getting cover of small broken ridge, at 330 yds. Killed one large buck (Pognia) at first fire. The others jumped up in a confused manner, and several moved off a little at random, standing still at intervals, then made off to windward. One more killed before they got out of range. We followed cautiously in the pattern of the tracks across a swampy flat, and saw deer trooping along in single file behind a ridge, with just the tops of antlers showing, thus ∩∩∩∩. When we turned corner of ridge, deer were in range and a scattering fire ensued for some minutes at 200–500 yds. Deer scattered. Klavinik killed four, Palaiyuk one, and I one more – a young doe, badly mangled, fore and hind leg broken on one side, and a great hole in rump. It was now 5:00 p.m. and I returned to skin first buck killed, the largest we

Sept. 22 (Thurs). The other deer (♀) which dropped at first place, was only wounded, and tried to escape, and I gave her another shot.

Caribou

#468. ♂ Barren Ground Caribou. Length (nose to tip of tail) 82½ in. Tail 6". Height at shoulders 46". Depth of chest 23". Back fat about ¾ to 1 in. Thick, extending from middle of back, around tail and well down past middle of haunch. It was dark at 7ᵂ p.m. when I finished skinning deer, and disemboweling ♀. Ilavinik and Palaiyak had started back towards camp. I failed to strike camp, which was hidden in a little hollow, got too far to south, tangled up in a maze of lakes and connecting creeks, some only partially frozen over. Broke through ice of small creek, and wet my feet, and had to keep moving to keep warm. Did not dare to keep waiting at Caribou for fear of wandering too far, and lay down on snow, with arms drawn inside of hunting shirt deerskin — from 12 a.m. to 12:45 a.m., and again from 4 to 5 a.m. Had continual uncontrollable spasms of "shivers" while lying down, every muscle shaking. Felt warmer after each spell of tremors (muscular exertion).

Sept. 23 (Fri). Daylight at 4:5ᵂ a.m.; found self 4 or 5 mi. N. of Camp.
+40ᵈᵉᵍ 1 p.m. Sighted Ilavinik on hilltop about 7ᵂ a.m. and reached
+25ᵈᵉᵍ 7 p.m. camp about 8ᵂ a.m., very tired, and feet somewhat swollen.
Wind SW a.m. Slept until 11ᵂ a.m. In morning saw Snowy Owl, long-
Calm p.m. spurs, and a Bear or Caribou moving on hillside 2-3 mi.
NE in eve. S.E. of Camp. Cold in morning, but day bright and clear. Light SW wind in morning. Snow melted rapidly during forenoon and was half gone at noon. Sailed at 1ᵂ p.m. from camp on creek, sled dragging very heavily over clay and gravel-topped hills, and easier in

Sept. 23 (Fri.) valleys, where snow was unmelted in hollows, and whalebone (rib) runners slipped easily over "nigger-heads", "têtes-de-femmes", or grass-covered tundra hummocks. Saw several Marmots, one shot; four or five Snowy Owls seen and one American Rough-legged Hawk (Archibuteo lagopus Sancti-johannis). Saw Caribou buck wandering over hills near scene of yesterday's killing. Went after him, but Paliyuk, who had started ahead, alarmed him before I got near. Saw three or four White Foxes, all out of range. Pal. had seen five. One had carried a piece of Caribou meat to its hole. Foxes had molested three of the light deer carcasses. From my large buck, they had gnawed a little meat and fat from back and haunches, and carried off the whole slab of back fat (c. 25 lbs.) which I had removed and placed within the abdominal cavity, for greater safety. Hauled in four deer, and the skins and fat of other four, before dark. Took picture of ♀ Caribou on ground:

#1. ♀ Caribou (dead). 8 – 2 sec. 5 p.m. B.S.

Measured and weighed Caribou #469. ♀ Barren Ground Caribou. L. 71½". T. 5½". Height at shoulder 42". Depth chest 19½". – two-year-old doe, with first fawn born last summer. Milk in udder. Saw a number of Lapland Longspurs and Snow Buntings in evening. Paliyuk caught a Lemming (summer pelage) on hillside in afternoon.

#470. ♂ Dicrostonyx sp. L. 92. T. 13. Ht. 14 (skull broken)

Sept. 24 (Sat.). Cloudy morning, with occasional gleams of hazy sunshine. Clear from 9 a.m. to 12 M. Cloudy p.m. Wind strong SE all day. A Caribou fawn, evidently looking for its dead mother, came near camp about 6 a.m., bleating or coughing "Ouf! ouf!" Boy went after it, but could not get near. Jarvinek sighted what he thought was a Brown Bear moving on hills to southward, near Horton River.

M.T. +25° at 6 p.m. Cloudy a.m. Wind SE.

Sept. 24 (Sat.) After breakfast, Kavimick, Paluigut and I started southward. Passed several large flocks of Rock Ptarmigan on high, quite level upland, and several flocks of Longspurs. Several deep creek valleys run into Horton River from N. here, and a larger creek comes from NW. Small, stunted Black Spruce trees on sides of ravines leading ½ to 1 mi. from river. Trees much gnarled and twisted, particularly at base, which are usually thick for height of tree. Many dead spruce about twice of living trees. The valley of Horton River is from 1–1½ mi. wide here, from 400–500 ft. below level of upland. River makes sharp bend to S. about 4 mi. E. of here. Large lake in bottom land. Old Indian rack seen on river bank. Marmot holes very numerous, but very few animals out today. Saw one dead Marmot hanging over branch of small spruce about 1 ft. above ground, probably cached by Fox. Saw Marsh Hawk (Circus hudsonius) soaring over valley, and 3–4 Snowy Owls on hills. Several Bear tracks seen on hillsides near river, some fresh, since snowfall. Numerous old tracks (last summer's) of Caribou in creek bed near river, and a few Wolverine tracks. Coming home across high upland, we sat down to rest near a small hollow dump on a Marmot's hummock of earth. A Weasel came up, sticking head out of hole frequently to scold us, "tsirp! tsirp!" Caught him with slip noose. ♂ 411. ♂ Weasel L. 904 mm. T. 84 mm. H.F. 50 mm. While we were gone, Mannyaunt dug hole in ground to make meat cache. Ground frozen for about 3 in. on top, then a layer of unfrozen earth 8 or 9 in. deep, then solid frozen mud. Hauled two deer home in evening. Skinned our heads.

Sept. 20 (Sun.) M.T. +18. +22 at 7 a.m. Stormy SE wind during night. Dull sunshine in morning. Brought in remainder of meat, and

Sept. 25 (Sun.) worked on deer skins (specimens), skinning out ears, feet, etc. Put meat into hole in ground (my specimens underneath), the rest of skins and meat on top; then a layer of willow twigs, a layer of sod, snow packed into crevices and water poured over to freeze, making the cache (safe from foxes and wolves) perfectly secure from wolverines. Paid just enough attention to a lemming x 472. & Dicrostonyx x - 102-15-7, and also shot a White Fox, the latter with much blemished fur on back, shoulders, and hips.

Lemming

Sept. 26 (Mon.) M.T. +18. +20 at 7 am. Cloudy. Strong SE wind. dogs able to carry good packs.

Moved camp to place at foot of bluff, about ½ mi. from mouth of large creek flowing SE into Horton River. Left sled and heavier stuff at deer cache, and "packed" down to river, (about 75 lbs. apiece) travelling from 9 a.m. to 12 m. Only two Plenty of good wood around this camp — spruce straggling, and about half of the trees dead. Saw a few Marmots and some Rock Ptarmigan. Scattered clumps of small spruce, few over 10 ft. high, extending for over a mile up creek. Many dead trees and stumps north of line of living trees. Everywhere there are more dead than living trees; no evidence of destruction by fire. Dead wood is dry and seasoned — unrotted.

"Tooth Island" had six pups today, just after making camp — one (named Mack) & kept. Started out at 2 p.m. for a little scout to Eastward. Large lake (1½ x ¾ mi.) on bottom land (in bend of river) just to eastward of camp; rather as a level bench about 30 ft. above river level. Looked out from several of series of steep bluff promontories overlooking the river. River from 100 to 150 yds. wide (apparently). A little ice along shore in places, but river banks mostly clear. Current strong, carrying numerous small pieces of floating ice. At a casual glance the country appears boodless,

Sept. 26 (Mon.) but every ravine leading down to the river is pretty thickly studded with spruce clumps. Immediate banks of river steep in places — stone. At one place saw two black mink, like coal. Numbers of marmots out on sandy, gravelly ridges. A large Brown Bear or 4x1 at (Barren Ground Bear. Ursus richardsonii) sighted on hillside where river makes a great bend to southward. He was rambling about aimlessly, either picking up the spare red atjiat berries, or looking for mice. We circled to leeward, about ½ mile, and looking over ridge, saw Bear approaching along back of a small creek. We got covered until Bear was within about 20 yds. We all three fired together, and one shot apparently struck, as Bear turned sharply around, and fell or scrambled into creek bed and started to climb up across side. A few shots more made him change his mind, and he turned tail and made a bee-line east, at a clumsy gallop as far as we could see with field glasses (3 — 4 miles). A rather large Bear; under parts, legs, and haunches looked black; back, shoulders and hips light brown or buffy. Bear walked with a rolling shambling gait, lurching from side to side like a heavily loaded van on a rough road, but ran a little less awkwardly.

Barren Ground Bear

Saw large flock of Rock Ptarmigan on way home, and killed two at one shot with Mannlicher. Lost my hunting knife. Wind lowered about 6 p.m., but freshened a little during night. Numerous Bear tracks — large and small, old and fresh — seen on hillsides everywhere. Saw one Marsh Hawk.

Sept. 27 (Tues) Cloudy. Sunshine for a few minutes about 1 p.m. Wind SE, strong at midday, light after 4 p.m. Shifted to S. in afternoon.
M.T. +25°. Hunted 7 — 8 miles to SE over very rough country, looking
+30° at 8 a.m. for Barren Ground Bears. Crossed many deep ravines and
+33° at 4 p.m. gullies leading up from river, all more or less timbered
Cloudy. along sides. Carefully scanned each ravine up and down
Wind SE. Bleak

Sept. 27 (Tues) from top of hills, but failed to see any Bears. Tracks more or less recent, everywhere — some apparently made today or yesterday, and saw numerous places where Marmot burrows had been dug out recently. Crossed large creek, water 3 or 4 feet deep, running open in many places. Many Marmots out today. Saw a large flock (40-50) Willow Ptarmigan on rugle upland, feed L. Lagopus (saw this fall); two or three Am. Rough-legged Hawks, three Canada Jays; many large flocks of Snow Buntings, and several Golden Eagles. Boy tried to shoot a White Weasel in a Marmot burrow on upland, jerked him out of hole when he stuck his head up, but missed over head.

Camp back along river side; much floating ice; current 3-4 mi. per hr. Beach paved in places with small rounded stones (from 2" to 12" in diameter); occasional boulders and blocks of blue limestone. Limestone strata cropping out a few feet above river bed, usually hidden by fallen dirt and debris from above. Thin vein of coal 3-4 inches thick, about 12 ft. above river level; a thicker vein a little higher up the bluff. Picked up a lump of fairly hard crystallized coal about 4 in. diam. at base of bluff. Coal burned freely in camp stove.

Saw four Golden Eagles at one time, about ¼ mi. below mouth of large creek (from NW), hovering over a large nest about 75 ft. from bottom of 60° bluff overlooking river. Nest built up on sloping side of bare bank, outer edge about 8 ft. high and nest about 6 ft. in diameter, built up of sticks and branches of trees; very conspicuous.

Followed fresh tracks of small Bear some distance along river bank, running fast. Bear evidently got our round, for tracks soon made straight into the water. Numerous lone Fox, Wolverine, and Caribou tracks along river, also tracks of one Moose or a very large Caribou (old tracks in mud).

Sept. 27 (Tues) Bear — One Marmot trapped at camp today. Fresh old Bear's dead seen on hillsides, in ravines & creeks.

Sept. 28 (Wed). M.T. +28° +32° at 8 a.m. +33 at 6 p.m. Cloudy. Strong SE wind. Cloudy. Strong SE wind. Snow all day. Ground bare, except for a few little patches of snow in hole between little hummocks or tussocks. Wind lowered about 4:30 p.m. Hunted to Eastward again. Passed place where we saw Bear on 26th. Crossed broad, flat valley (with two small creeks) then ascended high hills to N. Numerous fresh signs of Bear — tracks, plenty of unearthed Marmot burrows. Crossed large, deep creek which comes from North, joining Horton River near great bend of river from the south. This creek valley was usual sled trail from Langton Bay to river when sleds wintered in Langton Bay. Creek still running open in most places. Crossed this ice by crawling, Ekowinik first across, and hauling me, lying prone, with rope. Scattering spruces for 2-3 miles up stream. Very high, steep, almost barren, stony and gravelly hills rising abruptly on east side of creek. Recent Bear signs everywhere. About 2 p.m., as we were walking carelessly along with rifles slung across backs, the ground apparently affording no cover for game, a Bear suddenly rose up from behind a Marmot's mound, near top of high ridge — where he had evidently been sleeping. Palaujak got out his rifle first (from deer-skin cover), and fired point blank at distance of about 3 yds, striking in shoulder (as we found out afterwards). Ekowinik's rifle jammed, but bear turned, and galloped heavily away. We all fired again, dropping Bear within 10 yds.

#473. ♀ Barren Ground Bear. (Ursus richardsonii)
Length (nose to tip of tail) 57". Tail 5". Height at shoulder 29".
Depth of chest 16". Color dusty brown, tips of hairs

Sept. 28 (Wed). on dorsal surface, light grayish brown or fulvous.
White Fox
Just after leaving camp Palaiyuk started up a White Fox from flat upland, fried 3-4 miles - wounding it. Iloomiuk and I both saw it running at a distance & stopping once or twice to look ~~around~~, but took it to be a Fox.

Saw great flocks (hundreds) of Snow Buntings, two large flocks of Rock Ptarmigan, a few Ravens, one Eagle (A. chrysaetos) Marmots out in numbers; abundant holes along large creek. Red "atjiok" berries abundant in creek bed, and also found a few blue-berries (the first I have seen in Arctic). One Rock Ptarmigan killed from flock of eight near camp in morning; one one more later. Two Marmots trapped.
Ptarmigan

Sept. 29 (Thurs). Snow fell during night, enough to whiten ground, but all melted off by 9 a.m. Light SE wind during middle of day. Calm after 4 p.m. Moved camp, packing, about 5 mi. eastward to mouth of large creek. Found and place where creek was forded across near its mouth. Camped about ¼ mi. inside, on left (east) bank in clump of spruce. Hills on sides very high and steep 45°-60° slopes, yellow sand mixed with gravel, mostly barren on tops, scattered bunches of grass and lichens on upper slopes; moss and small trees near bottom. Creek bed stony — many large stones. Two Marmots out today. Saw one Eagle, two Am. Rough-legged Hawks, a flock of 12-15 Redpolls (Acanthis linaria) in spruce thicket. Large flock of Willow Ptarmigan (40-50) on ground among spruces near camp. Killed two as they flew away.
M.T. +29°
+31° at 7 a.m.
Calm
Cloudy.
+35° at 2 p.m.
+35° at 8 p.m.

A Brown Bear had recently climbed a small spruce near by, tore off many branches, and left much hair every where. Packed ~~meat~~ ~~and~~ meat of Brown Bear killed yesterday, to camp. Cache had been untouched by Foxes etc. Bear was killed near highest point for ten miles around. Surrounding country looks rough and "unfinished". Many of the hills are
B. Bear
Cf. "Bad Lands".

Sept. 29 (Thurs.) look like "dumps" from a gigantic steam shovel.

Bear

Hainnik says that when his people (Kotzebue Sound, Alaska), killed an Aklak, the man used to leave carcass about ¼ mi. from camp, come in, change clothes, and throw away all the old clothes worn during the killing; says his father sometimes evaded this law by not mentioning the killing until four or five days afterwards, and nothing ever happened to him, although sometimes the neighbors were horrified and would not come into the house.

Ground thawing in afternoon and evening.

Sept. 30 (Fri.) Cloudy morning. Light SE wind. Light snowfall during night, but it quickly melted away in early morning. A few snowflakes flying at 8:30 a.m. Large flock of Willow Ptarmigan in small willows across creek, calling all morning. Hunted to southward, going around big bend of river. Hills very high, with many deep, steep-walled gullies and ravines leading down to river. Large creek bank (sand) visible to S. on left bank of river. From this bluff, river makes a big bend to W, then N, then E, north and west again. Ravines well wooded. High land slopes up from top of river bluffs to eastward. Large creek comes from E., its mouth about 5 mi. S. from our camp. On this creek "Jimmy" caught a Silver Gray Fox last February, also 10 White Foxes, and saw Caribou nearly every day during February. Ascended highest point of ridge to northward (east of where we killed Bear). Mountains back of Darnley Bay visible. Darnley Bay could probably be reached from Horton River in one long day's travel. A few small flocks of Ptarmigan seen on upland; a few Marmots; one American Rough-legged Hawk. Large flock of Willow Ptarmigan in creek valley near camp; two shot. A White Fox ran up to top of high bluff near camp. Hainnik and I fired (about 300 yds); both scored. Fox was colored

Caribou

White Fox

Temp. M.T. +28°
+32 at 7 a.m.
+33 at 4 p.m.
Cloudy.
Lt. SE wind.
NE in p.m.

Sept. 30 (Fri.). Maltese gray on head, back, shoulders, hips and face; whitish underneath. Hair full of lice, which appeared on surface in dozens, whenever the body was touched. Light fog S southward along river, in morning; gradually spreading and getting thicker during the whole day. Wind shifted to Northeast about noon, holding in that quarter for remainder of day.

October 1. (Sat.). Cloudy, foggy morning. Wind NE. Snow falling most of the time from 9 a.m. to 5 p.m. but melting nearly as fast as it fell. Ptarmigan calling out near camp in early morning. Went up river about 5 mi. with Skonnit (around large bend of river to westward. Came to large creek where Jimmy camped last winter, and which up creek a mile or two, but could not cross. Creek 20–30 yds. wide, from 3 to 5 ft. deep, with strong current; free of ice. River bluffs somewhat lower for about 2 mi. on each side of mouth of creek with broad, gently sloping benches. Quite heavy spruce thickets for 3–4 mi. up creek. Thin veins of coal (2 to 4 in. thick), much broken and crumbled, along river, 30–40 ft. above river level. River banks with sloping stone pavement for miles at a stretch; occasional loose blocks of gray limestone, some apparently out cropping from base of cliff at about high water level. Strata above mostly bluish gray clay; yellow clay, sand and gravel mixed on upper levels. Slopes of bluffs nearly everywhere entirely obscured by mud, sand and debris caved down from above. Saw several large flocks of (30–40 birds) of Willow and Rock Ptarmigan, and a few single birds and pairs, all day. Skonnit shot one Willow Ptarmigan. A few Marmots seen. Shot one with rifle, completely disemboweling it. Saw two Canada Jays, which followed us for some distance down river, a small flock of

M.T. +29°
+32° at 8 a.m.
+33° at 3 p.m.
Snow.
Wind NE.

Oct. 1 (Sat.) Redpolls, and a few Snow Buntings (the latter apparently in full winter plumage). Saw one White Fox (apparently pure white), lying down in shelter of a little thicket, but he ran away before we approached within 500 yds. A few Willow Ptarmigan around camp during the day, and boy shot two. Warmer in afternoon, snow melting as it fell, almost like rain.

Oct. 2 (Sun.) M.T. +28° +30° at 8 a.m. +27 at 6 p.m. Fog a.m. An inch or two of snow fell during the night, making everything white except steep slopes. Quite thick fog in morning. Fog lifted a little after noon, and sun shone brightly for a few short intervals during the afternoon. Light wind from NE all day. Went up on high series of hills to northward to look around, but saw no large game. Marmots more numerous than usual; tracks everywhere on the fresh snow. On the high lands, saw a Marmot run for a hole at every little hummock. Shot two Marmots. Saw one flock of Ptarmigan (5–6), a few Snow Buntings, and a single Snowy Owl. While we were gone, Manoyaulk saw a bird in spruce camp, called Tū'yūk (from description seems to have been Arctic Three-toed Woodpecker.

Snow haze or fog in late afternoon; occasional snow-flurries in evening. Colder in evening.

Oct. 3 (Mon.) M.T. +17° +21° at 8.30 a.m. +8° at 5 p.m. Wind NE—NE by W. Fog a.m. Clear p.m. Wind NE and NE by W. Sky cleared up a bit at 6.00 a.m. A little fog along river and creeks. Ptarmigan calling in early morning; bright clear sunshine in afternoon. Hunted to NE and E. to top of high mountains. No signs of Caribou anywhere. Saw fresh tracks (yesterday's) tracks of Brown Bear crossing small pond on high ridge — tracks of soft crusted snow which had adhered to ice while surrounding snow had blown away. Large numbers of Marmots out in afternoon; six killed; all rather poor. Three or four flocks of

Oct. 3 (Mon) Ptarmigan seen on wooded slopes of river bluffs, four or five Willow Ptarmigan killed with rifle. Boy stalked a Snowy Owl on the hills, but as usual, could not get within 500 yds. A few Snow Buntings seen. Several fresh Fox tracks on uplands, and fresh Wolverine tracks along river. Large flock of Willow Ptarmigan near camp when we returned. Nassayant had shot four during the day, Ilavinik killed two later. Coldest night of season. Ground is white with snow — one to three inches.

Oct. 4 (Tues.) Clear. Light NE wind, which backed to SE in afternoon. Cloudy in afternoon, snow in evening. Packed camp west 6–7 mi. to place near mouth of large creek coming from NW about 1 mile W. of former camp. Heavy sort packing, ground being very slippery with light snow. Saw three Marmots, shot one. One small flock of Ptarmigan seen. A few Ptarmigan seen up creek from camp in evening. Left letter for Mr. Stefánsson near old camp (in case he should return from Coppermine River along the tree line to Horton River), letter placed in tin can on top of Indian cache from near mouth of creek. Fresh Wolverine and Wolf tracks near camp. Took picture from camp near mouth of creek. #2. "North" Creek Valley, looking north. 8–2 sec. B.S. 8 a.m.

M.T. −4°
+11° at 6:30 a.m.
Clear.
Lt. NE wind.
SE wind p.m.

Oct. 5 (Wed.) Wind light, ENE. Heavy snowfall during night — light, fluffy snow, and a few flakes still falling at 7 a.m. Snow fog over land. Ptarmigan near camp in early morning. Ilavinik shot seven Willow Ptarmigan. Wind SE in afternoon. Ilavinik and I went to "8-day Cache", taking two dogs. Packed skin, skull and legbones of a Barren Ground Bear and cached with Caribou skins. Cache untouched, but a White Fox was in Ilavinik's trap alongside; fur white, but a little dingy, and hair short. Ilavinik says:

M.T. +20°
+29° at 8 a.m.
+27° at 3 p.m.
Wind ENE–SE p.m.

Oct. 5 (Wed). "good enough skin for H.B.Co., but not for whaling ships." Brought sled, with a little more than load of ice and deer, down to river. Sled pulled all right, but walking was difficult, as soft snow had filled up most of hollows between hummocks — holes invisible until one slipped into them. Saw several Marmots, one Raven, one flock 15–20 Willow Ptarmigan. Shot one Marmot, Palaiyuk one, and Noveshak Yaffa two. Palaiyuk shot ten Willow Ptarmigan. Ptarmigan look white now, but most of the birds have a few brown feathers on back. Two Canada Jays around camp in morning — one caught in steel trap. Saw large flock of Redpolls flying about the creek. Fog cleared off a bit from 9.00 a.m. to 1:00 p.m. but light snowfall again in afternoon. Broke through ice while crossing creek today — not above both times, just after starting out, but as it was not cold, did not go back to change. Clear evening. Stars seen. Skinned #474. ♀ Canada Jay. (Perisoreus canadensis). "Ké'ruk."

Oct. 6. (Thurs). M.T. +20°. +22° at 7 a.m. +17° at 5 p.m. Cloudy. Wind SW. Cloudy. Wind SW. A little snow fell during night. Cloudy all day, with light snow falling most of the time. Sky cleared after 7:00 p.m. Hunted down river 10–12 miles. Much floating ice in river, and river freezing along edges. Set six large (#2) traps along river, for Wolf or Wolverine. Saw large flock of Willow Ptarmigan in creek valley a little below camp. Golden Eagle's nest a little below mouth of this creek on right bank of river. An Eagle flew up from among trees on hillside, and alighted on edge of nest. Fired rifle shot, mussed, and Eagle soared off, alighting again on hillside about 200 yds. further on. One Canada Jay seen. Two Marmots along river, shot one. Tracks of large wolf seen near camp in morning. When we returned Mamayauk said a large red Wolf, "bigger than Shiktabruk" had been prowling around camp in the afternoon, within close rifle range. Ascended high hills at furthest point south, but

Oct. 6 (Thurs.). but could not see the "Jackfish Lake" where Stefansson and Billy caught jackfish last fall. Returned some miles over high upland — exceedingly precarious walking — over slippery "nigger heads" with deep, snow-filled hollows between. Fresh Wolverine tracks on high land.

*478. ♀ Marmot. 390 - 153 - 54.

Oct. 7 (Fri.). M.T. +10°. +17° at 8^00 a.m. -15° at 5:30 p.m. Cloudy. Wind S.W.

Cloudy. Wind SW. Snow during night. Went down creek in morning after Ptarmigan. Three flocks seen — one Willow Ptarmigan killed. Did not find large flock (50-75) on high upland, but very wary. Went down river as far as Eagle's nest. Eagles seen soaring in distance. Took pictures

*3. Eagle's Nest. 3200. 16. 11 a.m. Bright Cloudy.

*4. North Bank Horton River, at Eagle's Nest. 2200. -11 - 11 a.m. B. Cloudy.

*5. Camp Creek. North side Horton R. 1800 - 11 - 11:30 a.m. Dull sunshine. Snow.

Saw one Canada Jay. Hannik and Palaiyuk tackled fish net in morning, and made floats and sinkers. Set net in afternoon in large lake near river, about 1 mi. east of Camp. At point of peninsula on west side, water 4 or 5 feet deep 20 yds. from shore; 7—8 ft. deep 50 yds. out. Slender water grass and plumiform. Potamogetons? seen on bottom, also large Snail (Helix?) shells. Set net by cutting eight holes, running pole with line under ice, steering pole with forked stick past each hole, then pulling net underneath ice. Looked at one trap down the river; trap sprung by Marmot, which had escaped. A large Wolf had walked all around trap, but had not come nearer than six feet 7 ins.

Oct. 8. (Sat.). M.T. +8°. +17° at 8^00 a.m. +15° at 5:30 p.m. Cloudy — wind SW.

Cloudy. Light SW wind. Light fleecy snowflakes falling most of the day. Went down river to look at traps. In first trap near mouth of small creek found ♀ Red Fox. (Auk pi'lak'tok or Auk pi'la ra'tuk). *475. L. 40". T. 16" Ht. 6" (*475. ♀ Red Fox).

Oct. 8. (Sat.). Saw two large flocks of Willow Ptarmigan in creek, and a very large flock (60-70) at mouth of creek in low willows and on sand flat. They were very tame and I killed two with rifle. One Marmot came out and Ilav. shot it. A Canada Jay watched us set our trap, and on my return trip found that Jay had stolen all the bait (small pieces of Marmot's flesh scattered around trap. Small chips of frozen Marmot are considered good fox bait, as the scent is usually strong. Came home about 1:00 p.m. and went over to lake to haul fish net. No fish in net. Ilav. tried brass nikshik (hook) a little further out (about 150 yds from shore), and could not touch bottom with 10 ft. of line. No signs of fish. Saw one Marmot on road to lake.

Oct. 9 (Sun.). Cloudy. Light SE wind. Light snowfall during night. Sky cleared about 9:00 p.m. and sun shone all day, with a few light Clouds. Palaiyuk and I went down river to look at traps.
M.T. +8°
+9° at 7 a.m.
Cloudy,
light SE wind.
Canada Jay had stolen all bait from first trap. Replaced bait. Wolf had sprung second trap; fresh tracks all around it. Wolf had followed one path most of the way from camp. First deadfall was sprung. Coming back we saw a Weasel looking out from deadfall trap. Shot at him, but he got into a hole near by. He soon stuck his head out and I killed him. Badly mangled. Shot Canada Jay near trap. One more Jay seen, one Golden Eagle (year old bird), two small light-colored Hawks flew over, going west (Pigeon Hawks or Merlins?). Large flocks of Ptarmigan (10 or more) on hillsides near mouth of large creek. Shot four Willow Ptarmigan. Some Ptarmigan have full white winter plumage now, no brown at all; others have a few brown feathers on head or back. Saw one yesterday which had head and neck half brown, and some brown feathers on scapulars. Ilavinirk went to look at traps on meat cache northward. Nothing in traps, and no tracks around. He saw a Brown Bear (medium-sized) on upland near cache,

Weasel

Bear

Oct. 9 (Sun.) running westward. He could not get near, although he fired a few times at long range, and thought he wounded it slightly.

Horton River still running as usual, with much floating ice.

Oct. 10. (Mon.) M.T. −4°. +9° at 7:00 a.m. +15° at 12 M. +17° at 3 p.m. Clear. Wind SE.

Clear. Brisk SE. wind. Tent pretty frosty inside this morning. Wind died down in afternoon. Went over to lake in morning and hauled out fish net. No fish. Took net home to dry it. Dusted wet net with dry snow, and brushed off snow. Frozen net quickly dried, although never thawed out when hung up in tent. Went up on high hills overlooking big bend of river to eastward of lake. On one place river was apparently frozen over. Fox, Wolf and Mouse tracks seen. No signs of big game. Returned home at noon. Set three Mouse traps. Took picture #6. Black Spruce trees - near northern limit of trees. 16-½ Bs. 7 p.m. Two Eagles, or large Hawks, seen soaring at a distance. Paleiyuk killed six Willow Ptarmigan.

Oct. 11 (Tues.) M.T. +9°. +22° at 7 a.m. +24° at 4 p.m. Cloudy. Wind SE.

Cloudy. Strong SE wind all night. Saw about four Willow Ptarmigan around camp before breakfast. Went down river and took up traps. A ♂ Red Fox in my second trap. #476. ♂ Red Fox. L. 41¼". T. 16¾". H.F. 6¾". Saw two or three Canada Jays, and a small flock of Snow Buntings. No Ptarmigan seen down river today. One large Mouse-trap near camp. Warmer in afternoon.

Oct. 12 (Wed.) M.T. +19°. +19° at 7 a.m. Cloudy. Foggy 9 a.m. Clear evening. Wind SE.

Cloudy morning. Somewhat foggy along river. Wind SE. Broke camp and started north at 9:30 a.m. Fog very dense on upland and we could not see 200 yds. Had some difficulty in finding deer cache. Opened cache and put on sled, 1 saddle, 2 shoulders, some ribs and small piece of meat; all deer skins, 2 heads and leg bones of Caribou, also Barren Ground Bear skin, skull and leg bone. Left cache at 12 M.,

Oct. 12 (Wed.). Travelling N. and NE. Towards evening got on a long chain of lakes extending in a northeasterly direction. Camped at 5:00 p.m. Sky cleared a little about 2:00 p.m. Sunshine bright from 3–5 p.m. Clear evening. Ice about 8 inches thick in lake where we camped. Long range of peaked hills to eastward extending N. and S. No game seen today. A few fox tracks here and there.

Oct. 13 (Thurs.). Air clear in morning. Sky cloudy. Wind south in morning.
M.T. +12°. Started on trail at 8:30 a.m. Followed small creek for short
+24° at 8 a.m. distance into a chain of lakes running NNE parallel with
+29 at 3 p.m. high peaked hills. Sighted sea about 10:00 a.m. Langton Bay
+30° at 6 p.m. flogen over, except a small spot off point of Whalers' Harbor
Fog. sandspit. Open sea in Franklin Bay opposite shore about
Snow. about one mile. Descended a very crooked, rocky, creek bed,
Sleet. emptying east of high land about 2 mi. East of Langton Bay
house. Saw two willow Ptarmigan on way down. Shot one.
Wind increased, and it was blowing a gale when we reached coast, so strong that I could hardly stand up facing it. Snow blowing from SE, snow soon changed to sleety rain during most of afternoon. Wind moderated about 5:00 p.m, shifted to South, and sky cleared a little. Salt water ice in harbor covered with an inch or two of heavy slush. Found everything all right in house. Meat in ice house mostly unfrozen, some of it moulding a little.

Oct. 14 (Fri.). Cloudy. Wind SW, fairly strong. One Seal seen on top of
M.T. +27°. ice in early morning. Mac. took my picture "H. & E." Cloudy. Saw
+27° at 8 a.m. Ikonnik, Palaiyuk and I went west to Whalers' Harbor. Much
Cloudy. broken ice piled on beach. Ice had moved carcass east 20–30
Wind SW. yards since Sept. 21st. Many fresh Wolf tracks. Two Gulls (L. glaucus) seen one old and one young. Five Old-Squaw Ducks

Oct. 14 (Fri.) on edge of floe. Saw Bearded Seal on sandspit and one on hill. Saw a wolf across lagoon, on top of hill howling. Ikav. and Pal. went across. I soon saw four more wolves coming from west, going inside lagoon, passing through a low valley parallel with the coast. Scattering fire at 30-40 yds., killed three, two female, one male, all young. One wolf, larger than the others, probably the mother, escaped. Five wolves heard howling in the foothills after we had gone away. All these wolves were very fat. color tawny yellow, with a few long, dark hairs intermingled.

Wolf.

#477. ♀ Wolf. L. 149 cm. T. 39 cm. H.F. 25 cm.

Oct. 15 (Sat.) Clear. SW wind, fairly strong. Cleaned Wolf skin and two Caribou skulls, and hung up Bear and Caribou skins to dry. Ikavuvik and Palaiyuk went to look at traps, but found nothing in them; saw one Gull, a few Ptarmigan, two Foxes and four Wolves; said one of two large Wolves was white, all others yellow. Palaiyuk shot one more young Wolf, and saw a Black or Cross Fox. Ikavuvik went out later and shot three Ptarmigan. Saw one Seal out in ice today.

M.T. +22°. +25° at 7 a.m. Clear. Wind SW.

Wolf. Fox. Seal.

Thermometer around +25° all day. Young ice in Franklin Bay today, as far as could be seen; sea open yesterday.

Oct. 16 (Sun.) Half cloudy. Sunshine in morning. Wind SW, strong. A little fog in morning. Cloudy afternoon. Went to W. Edgoon with sled. Nothing in traps. Set net in lagoon in about ten feet of water, 100 yards from shore. Hauled home load of wood. Ikavuvik shot a young Glaucous Gull in the morning, and in the afternoon two Seals (one a very large O) in an open patch of water off point of sandspit. Both Seals were brought in with Kayak.

M.T. +18°. +22° at 8 a.m. +25 at 2 p.m. Half cloudy a.m. Wind SW.

Seal

Oct. 17 (Mon). Cloudy. Strong SW wind in morning, light wind in the afternoon, Calm in evening. Palaiyuk caught a young white Fox in trap at carcass; fur slightly blush on back and tail. No fish in net. Saw one Gull, two Ravens, and two Ptarmigan. Laid out and baked seal net today. (Sturgeon netting, 180 yds. long, 20 ft. deep. — From August Fulton St. N.Y.). Several Seals seen in open pools outside sandspit. Two came up at one time, and we (3) all went out. Hannik shot a large Seal, but strong eastward current carried him under ice, before we could get him. Ice was very thin and unsafe near hole.

M.T. +15°
+15° at 8 a.m.
Cloudy.
Strong SW. a.m.
light SW p.m.
Calm evening.

Oct. 18 (Tues). Wind fairly strong SE. Clear in early morning. Hazy sunshine at midday. In misery all day yesterday, last night, and today with aching molar. Nothing in traps. Palaiyuk saw one large Wolf. Hannik made floats and sinkers for seal net. One Seal shot, but not recovered. Wind NE. strong, after 8 p.m.

M.T. +8°
+12° at 8 a.m.
+14° at 12 m.
Wind SE.
Clear a.m.
Wind NE strong after 8 p.m.

Oct. 19 (Wed). Bright, clear day. Light SE wind most of the time. Calm for a little while in afternoon. Hannik and Palaiyuk set seal net. We did not have enough rope to pull net underneath ice, so had to dig a trench in ice, (about 8 inches thick). I did not sleep at all last night or today — tooth badly ulcerated, and face very unsymmetrical bilaterally.

M.T. +12°.
+26° at 12 M.
+25 at 4 p.m.
Clear.
Wind SE.

Oct. 20 (Thurs). Cloudy. Wind light SE. Went to look at traps around whale carcass. Palaiyuk caught two White Foxes (dirty, yellow skins). Saw small flock of Ptarmigan west of ice border. No fish in nets. Two mice in traps at house. Warmer in evening. Calm +24° at 3:00 p.m.

M.T. +20.°
+20° at 8 a.m.
Cloudy.
Wind SE.

Oct. 20 (Thurs.). *479. ♂ Mouse. L. 140; T. 30; Hf. 20.
*480. ♂ " " 160 — 42 — 20.

Oct. 21 (Fri). Bright, clear day. Calm most of the day. Light SE wind in evening. Saw a flock of eight Rock Ptarmigan in ravine with small willows back of the house. Followed them up for several shots, and killed four. Plumage pure white now. Nothing in Fox traps. Caught two mice.
M.T. +25°
+25 at 8 a.m.
+22 at 5 p.m.
Clear
Calm. SE wind
*481. ♂ Mouse. L. 123. T. 29. Hf. 18.
*482. ♂ " L. 125 T. 30. Hf. 20.

Oct. 22 (Sat.). Cloudy. Light SE wind. Light snowfall during night. Caught (*483) ♂ Raven in fox trap at whale carcass. Palaiyuk shot Arctic Hare on bluffs. Saw Rock Ptarmigan two or three times, but not shot one. Nothing in fish net. Moved net out to narrow part of lagoon; water 6 fathoms deep, 50 yds. from shore. Recovered floating Seal, shot three days ago, inside sandspit. One Raven seen flying over.
M.T. +20°.
+29° at 8 a.m.
+30 at 9 p.m.
+30 at 3 p.m.
Cloudy.
Light SE wind.

Oct. 23 (Sun.). Cloudy. Wind SW. Took up fish net and hauled load of wood. Palaiyuk caught one Young Gull (L. glaucus). and one White Fox in traps (fox-skin white and clean). Saw small flock of Ptarmigan. Caught two mice.
M.T. +20°.
+20° at 8 a.m.
Cloudy.
Wind SW.

Oct. 24 (Mon.). Cloudy. Light SE wind. Intended to start for Cape Lyon today with Ilavinirk to make Cache for Stefansson, but Ilav's little girl Nowshak has been very sick since Saturday with high fever, headache, and continual vomiting; a little better this morning. Went to visit traps. Saw no life — only one White Fox (dusky skin) in Palaiyuk's trap under bluff, about ¼ mile from carcass — the same trap which caught fox yesterday. Ilav. fixed up Yukon sled. Caught two mice.
M.T. +17°
+20° at 8 a.m.
Cloudy.
Wind SE

Oct. 25 (Tues). M.T. +17° +19° at 8:30 a.m. Cloudy Wind SW. Cloudy. Light SW wind. Nothing in traps. Spent day working on specimen skins. Odr Seal seen out as usual in the evening.

Oct. 26 (Wed.) M.T. +7° +11° at 8 a.m. Clear. Lt. SE wind (Dam specs) strong after 9 p.m. Clear bright day. Light SE wind. Wind very strong after 9:00 p.m. Took up seal net and stretched it out to dry on the ground. Net brought up two fair-sized Hard-shelled Crabs (with pincers spreading 8 in. or more), and several smaller Crabs; color in general, pink or light salmon color, back more dusky. Net also brought up a number of small "dead" Clam shells and a spiral Mussel shell. All from a depth of 8± fathoms.

(442-443) Crab = Pū'tū ri'aK (Kotzebue Sound). Unknown to Kogmollicks. Ikar. says that a Herschel Island man caught one in reb once, and was much frightened thinking it was a Tūrūrok (devil spirit).

(444) Clams - Ab jaiK' (Kotz. Sound). Ū'wil'lūK (Kogmu).

(445) Spiral Mussel Shell - Shī'tūK kā'yūK (Kotz. Sound).

Fixed up things preparatory to starting for Cape Lyon tomorrow.

Oct. 27 (Thurs). M.T. +8° +22° at 8 a.m. SSW gale. Clear sky. Wind light in afternoon. Sky clear in morning, but wind blowing a gale from SSW. Terrific wind during night blew away several green Caribou skins which were drying on ground. Ikar. fished two pot of holes in ice about 3 or 4 yds. off shore. Two skins lost, but all specimen skins saved. Yukon sled blown half way across sandspit (50-75 yds.) and steering brace broken. Later in the day, all skins were recovered, one heavy back skin being lodged among ice cakes a mile or more east. Two large Crabs caught in net made by weaving rope yarn across a baled hoop, making fast some old bottles, and lowering to bottom during night. Wind moderated in the afternoon.

October 28 (Friday) Cloudy morning. Wind fairly strong SW, shifting to WNW before noon. Light snow fallen most of day.
M.T. +22°
+22 at 8 a.m.
+15 at 6 p.m.
Snow.
Wind WNW.
Started from Langton Bay Harbor at 10:30 a.m. with Ikaoinik, to make racks for V. Stefansson at Cape Lyon, as requested. Took three dogs Shukobruna, Nullitk and Booth Island with Yukon sled — a fairly heavy load, with small tug at on top. Memnyauk, Palaiyuk and Noorhak remained at Langton Bay. Reached sandspit at east end of Langton Bay at 2:00 p.m., and put some wood on sled (wood cached last summer by Ikaoinik) No driftwood on this part of Bay. Small lagoon inside sandspit. Ikar. says he caught fish at entrance of lagoon last summer (flounders, etc.) Not done inside. Small creek (Still running open in places) enters NE corner of Lagoon from NW, out of small lake, connecting with another lake higher up. From second lake, worked more northward over rather steep, rocky topped ridges, to another large lake, which we crossed, making camp about 5:30 p.m. Wind pretty strong, and cold. Expect to reach Darnley Bay tomorrow night.

October 29 (Sat.) Cloudy, dark day. Snow fine during forenoon. On trail about 9:00 a.m. Followed several small lakes in a general Easterly direction. Country hilly. About 11 a.m. struck out northward and soon came out on a flat plain. Sky cleared a little about 12:30 p.m. and we sighted a landmark about 2 mi. N. — an isolated pinnot with very steep sides [illegible] looking like stone man. (Ikar. says it is made of earth, with a small pond on top.) A little after sky cleared, we sighted a single buck Caribou about a mile to northward. Country flat — no cover, so we decided not to try to stalk him — as we would have to camp without wood. Moved on about ½ mi. when we saw the buck coming towards us. We halted.

Caribou

Oct. 29 (Sat.). put dogs behind sled, and waited. Curved tent willows, sticking up from rear of sled, evidently looked like antlers. He came steadily on, only stopping for brief intervals to look around, sometimes swinging the head from side to side, or lowering head a little. At about 150 yds. he halted, then began to move parallel to us. At the next halt, we fired, dropping him in his tracks. The animal was a full-grown buck, but not very old, in rather poor condition, with no back fat. Poor condition due to constant moving about during the rutting season. He evidently took us sled for a dog. Skinner says that male Caribou will frequently come up close to an object which they have seen moving at this season.

Caribou

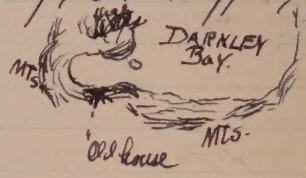
486 B Barren Ground Caribou. Length (nose to tail) 78 in. Height at shoulders. 44 in. Depth of chest 32 in.

Set two traps at cache. Cut meat and skin until return trip, as we were heavily loaded. Covered all with packed snow, and set up B+ large tent willows to mark spot. Bearing of big finger from cache - WSW 250° (Compass)

Sky cleared soon later (skinning Caribou from 1st to 2½ pm). and range of low mountains which skirt Dauntless Bay became visible. Headed for them, but ground was rough, and snow deep. Moved a little N. and struck a large lake about 3 mi long. Crossed a narrow sandspit at E. end of lake, coming on to another large lake, which skirts the western base of Dauntless Bay hills. Followed this about 2 mi. SE and camped at 5 pm. at foot of a low place in the range. Two fox tracks seen on ice of this lake - the only signs of life seen today (except Caribou). Tracks of Caribou showed that he had come North this morning from direction of the range of high hills extending East from Langton Bay (south of the flat land). These hills intersect the Dauntless Bay range about at right angles.

Caribou

October 30. (Sunday). Light SE wind in early morning. Shifted to about south. Calm at midday. Strong SE. in evening. Light fog in early morning, which cleared away at time sun rose over mountains (about 9.30 a.m. Clear, bright sunshine during rest of day. Sunset about 4.40 p.m. Started 9.45 a.m. Ascended rather steep slope on west side of Mts, and soon saw Darnley Bay about ½ mi away. Grade a little less steep on east side. Large indentation (bay or lagoon) at SE corner of bay, behind low, sandspit islands. Sides of bay little indented coming around NE towards Cape Lyon. Banks rather steep bluffs or steep, round-topped, rocky hills. Ruins of old igloo (wooden) near base of steep bluff on south side of SW lagoon. Old umiak frame on beach near by (recent; re-paired with iron nails). Some wood on sandspit here, more on shores of lagoon. East of this bluff, a fairly level, upward sloping valley 2-3 miles wide; higher hills to southward. Open water in bay from ½ to 1 mi. off shore; and a little open water at entrance to small lagoon at S. end of bay. Saw one large duck (Eider ♀) in water here, and one Raven on bluff top. Saw old tracks of two Bears on ice, and very few Fox tracks (all old), not more than 4-5. Wood in small amounts all along S. and SE shores of Darnley Bay. Camped about 4.40 p.m. on East side of bay at mouth of small creek. Good dry driftwood. Good seasoned spruce, and some long willows (15 ft long and 1-1½ in in diameter, fairly straight; much larger than any I have seen on Holton River. Got fresh water in creek by cutting through 1 ft. of ice. One fresh fox track here. Last night put out three baited hooks all night for Trout (Loche), but without success.



M.T. + 1°
+1° at 9 a.m.
+3° at 3 p.m.
Wind S. a.m.
Calm midday
SE strong in evening.
Clear day.

October 30 (Sun). In re Caribou: Ikwinik says that some Nunatamiu can pick out the fat Caribou from a herd by oblong shape of horns. Says they do not look at body of Caribou, but only at horns. That fat Caribou (in winter) are those with rather small, closely branched horns; although he admits that he himself can not always tell. Uniglik (Autlelit's brother, a Colville River man) is said to be able to always pick the fat Caribou from a herd. That when Caribou are plenty, and Uniglik is fat-hungry in winter he never shoots at the large Caribou as the smaller animals (females usually) are fattest in winter.

October 31 (Monday). Clear; sunshine all day. Wind fairly strong SE all day; less strong at midday (11 a.m. to 1 p.m. On land 9.30 a.m. to 3.30 p.m. Travelled N. about 2 mi. along crest of high hills. Hills sloped down to a long sandspit. Mouth of small river a little S. of sandspit (about 1 mi.). Big lagoon or rather bay E. of sandspit, into which a fairly large river empties. River has rather steep banks and a broad valley. Bay at river mouth 4-5 mi. wide with a few small low islands off shore. Apparently a long shoal extends across mouth of bay as a line of large ice cakes appear to be grounded all the way across. No large ice cakes in this bay. Continuous open water just outside a large ice pack. Saw four Ptarmigan near beginning of sandspit; shot at fellow Ptarmigan. Met Fox trucks there yesterday. Coast line curved to E and then N. Open water near shore compelled us to follow shore quite closely. Camped on a little sandspit with considerable wood at edge of a comparatively level plain (W. edge about 50 ft above sea level), sloping gradually up to base of a small range of conspicuous steep hills about 3-4 miles inland. Ikwinik says that Ak-pel-lik (Nunamiu) killed a herd of Muskoxen (ca. 20) on this flat land near the coast same winter that

October 31 (Mon.) ships stayed at Langton Bay (1897-98). Skinnuk, with three companions, went Musk-ox hunting up the last mentioned river in March 1902. Saw four Caribou the second day up river; killed all. Later three more and killed two. Said country was rough and hilly. In some places hills were stony; in others not stony. They travelled nine days before seeing Musk-oxen and killed 27, in two bands. No wood inland, although there were small willows near where they killed the Musk-oxen. Coming out, they travelled south six days before they struck the coast, 4½ days east of Cape Lyon. They found wood enough for camping every night on the coast east of Cape Lyon. Only track of Eskimo seen were remains of campfire, and an old kayak frame (Kogmallit type). Skin. says his uncle Kidik went east of Cape Lyon before this and found a heap of broken stone pots, etc., with one or two unbroken, but did not take any.

November 1. (Tuesday) Wind fairly strong SE. Sky partially overcast. M.T. +3° +14° at 8 a.m. Sky cleared up, and sun shone highly from 10 a.m. to 1 p.m. Cloudy in late afternoon. Wind very light SE in afternoon. Ice last 9:15 a.m. to 4 p.m. Shortly after starting, saw six Caribou on hills, east side of bay, about 1 mi. from coast. Five were quietly feeding and one lying down. Did not go after them. Saw one Raven later, and one Rock Ptarmigan. The latter alighted within ten feet of one sled, but flew away before I could get gun. Hills fairly far from coast, with gradually sloping sides. In afternoon crossed sandy flat 2–3 mi. wide, apparently mouth of small river coming out between steep hills. Considerable dead willow on flats. We were obliged to follow the shore closely all day, as open water was close outside. Camped about one mile S. of conspicuous black rock rampart and not far from Cape Lyon headlands. At a distance, the bluffs at Cape Lyon appear to be

November 1. (Tues) small islands but are said to be joined together by low land. Camped near N. end of long, high terraced sandspit (& rather coarse gravel ridge), & mouth of large creek coming from eastward. Scattering driftwood all along sandspit — two large piles, evidently put up by men. Show ruins of old house (or cache) on sandspit, about 1 mi. S. of here. Logs lay criss-cross; none seemed to have been chopped by axes, etc. — all very old.

Nov. 2 (Wed.) Clear day; with only a few clouds in the sky. Coldest day thus far. Light SE breeze. On trail 10 am to 1 pm.
M.T. — 7°
— 7° at 9 am
— 10° at 2 pm.
Clear —
Wind SE. Found thin young ice, with numerous large cakes of old ice, closed in shore — all along base of the perpendicular rock walls of bay. Ramparts 50–60 ft. high in places — stratified gray stone intermingled with layers (8–12") thick of yellowish buff stone (yellow color due to oxidization on surface — rock apparently sandstone as a rule). Stratified rocks overlaid on surface with 5–6 ft. of fine sand, mixed with coarse pebbles, and occasional boulders. Many large granite boulders (4'–5' in diameter) in places along base of cliff. This first (finished south) line of cliffs slopes down to a stretch of low land for about a mile; then another smaller row of ramparts (25'–30' high); then — long gravelly sandspit about 1 — 1½ mi. S. of point of Cape Lyon. Much large driftwood on sandspit. Found small roll of White Birch Bark; willow, cottonwood and spruce drift. About ½ mi. N. of end of this sandspit was Stefansson's camp last spring in a little bight but there was little wood then says Klavinsk. Another row of rock ramparts just beyond this, terminates in point of Cape Lyon. Decided to make cache near N. end of long sandspit. Open water with a dense mass of large ice cakes close inshore would make it very difficult to take sled around the point. Saw two willow Ptarmigan in morning near camp, and shot one.

November 3 (thurs). Cloudy sky in early morning. Clear after 10 a.m. Very light
M.T. −12° SE wind in morning. Calm from 11 a.m. to 3 p.m. Light
+4° at 9 a.m. SE wind after sunset. Marmint and I went out along
−8° at 5 p.m. edge of floe -- about 300-500 yds. off shore. A narrow lane of
Clear open water along edge of floe; outside of this a thin young
SE-Calm-SE. ice (not more than ½-¾ in. thick). Could large bergs in distance.
Soon we Ugyuk or Bearded Seal ("Big Seal") raised up his
head (as we were walking not 20 ft away), plunged forward,
exposing nearly the whole of his glossy black back, and
disappeared. We sat down and waited. She came up twice
about 100 yds. away, thrusting the head up through the young
ice, turning head from side to side, and at short interval
raising neck and shoulders out of water; remained up about
a minute each time. Side view of head closely re-
sembles a Dog's head at a short distance. We continued
scratching on ice with ice pick and knife, and the Seal
came up again, about 30 yds. from Marmint who shot it
through the neck. The Seal thrashed around a bit, then lay
floating, apparently dead. As Mar. was about to cast the
seal-bob to draw in the game, Seal gave a sudden
plunge, and disappeared. About 5 minutes later, it
came up about 30 yds. away, and we both put a bullet
into body, killing Seal. It proved to be a female; measured
7 ft. 4 in. from nose to tip of tail; weight (500-600 lbs).
It was all that we two men could do to drag carcass
up on floe with rope, and drag it a couple hundred
yards over the ice. Color, when in water apparently black
but when hair is partially dry, it is seen to be a yellowish
brown, or dusty buff. A very conspicuous "moustache" of
stiff yellowish bristles on upper lip. One embryo in utero
pinkish, hairless (except for bristles just starting on
upper lip), about 1 ft. long. #487

Bearded Seal.

Nov. 3 (Thurs). Saw three or four more Ugyuk (Bearded Seal) and several Natjirk or Small Seal (Phoca fœtida). Saw one Natjirk put up its head within six feet of an Ugyuk and it looked very small in comparison. Iksrulik says his people (Kotzebue Sound) reckon one Ugyuk as being equivalent to four Natjirk in weight (food value). The skull of this specimen was completely shattered (head half blown away), useless as a scientific specimen, but we need the skin badly to repair the umiak, as well as for boot-soles.

Ugyuk skins which have been used for canoe coverings, one or two years, are best for boot-soles, being well stretched, dried, and seasoned. Boot-soles made of fresh Ugyuk skin stretch excessively when water-soaked, then shrink too small for the foot when dried again.

We did not remain on the edge of the floe very long but ascended the highest rocky peaks on shore. Elevation 300 ft. above sea level. Cape Lisburne visible to NW. We could not see Banks Land, owing to vapor from open water, although it was visible last Spring, Ikeumut says.

Tracks of Arctic Hare very numerous on hills, and among the large ice cakes near shore. Saw fresh tracks (today's) on ice, and 2 places where Hare has been sitting. On the high rocky hills, the tracks formed a beaten track in some places. Saw one White Fox, watching us from a lofty rock. One Ptarmigan flew past, and a flock of 15 to 20 Ducks (Old-squaws?) were seen flying NE around the point of Cape Lyon. Block of rock on hill summits usually broken into rectangular shapes, often split — a hard slate colored or brown stone. Lower levels (from sea-level up to 30-40 ft) usually alternate with brecciated streaks of gray stone and yellow buff stone.

Nov. 3 (Thurs.) Strata just north of our camp dip to southward, making an angle of about 15° with sea-level. About a mile north, strata are horizontal; and near point of Cape Lyon, strata dips about 15° to north.

We went into little bight (about ¼ mi. S. of Cape Lyon point) where V. Stefansson camped last spring. Found small wooden box cached (about 20 bars lead, a few loaded .303 Savage cartridges, and a few empty .38-55 cartridges. Box had been overturned apparently by fox, and contents scattered. I left letter for Stefansson in box, and left an Eskimo letter for Hal Rushuk ("Billy"). Erected a tripod of sticks to mark this cache.

A low ridge at this point separates high land to south from the small rocky headland of Cape Lyon. Neck of land about ½ mile across here. Erected a tripod of sticks on top of ridge, and tied letter to same. From this point east bank is visible 4-5 miles to eastward. A small bay, with low land behind about 2 mi. East, beyond this bay, more high, perpendicular bluffs.

Nov. 4 (Fri.) Warmer this morning. Cloudy. Light SE wind
M.T. −9°
+9° at 8 a.m.
Cloudy.
Wind SE.
+7° at 3 p.m.
Went out on the edge of the floe but found very little water - only a few little cracks or pools at edge of floe and young ice. No Seals seen. Sky cleared a little in the afternoon and sun was visible for a little while. Cloudy in evening. Finished making racks for Stefansson's cache. Racks made by setting up three upright drift logs, based forming a triangle, roots of tree upwards, bases buried in gravel and snow, logs piled around bottom, and water poured on snow to freeze fast. Cross pieces across top, supported by branching roots of trees. On south rack, about ¾ of meat and medley all blubber of an Ugyuk, and about 50 lbs. of whale blubber and

Nov. 4 (Fri.) blankets. Meat was cached separately, to prevent loss of other stuff in case Blue Bears should find caches. On north rack, about 25 yds. from first rack, cached one sack (50 lbs) flour; about 5 lbs. rice; tin camp stove with four pieces stovepipe; .30-30 Winchester rifle; and a wooden sugar box containing: - 2 lbs. tea, 1 can salt, 1 pkg. matches; 4 plugs black tobacco, 1 plug chewing tobacco, 100 Mannlicher-Schoenauer 6.5 mm. cartridges; 100 .30-30 W. cartridges; 20 .303 Savage and 15 - .38-55 W. cartridges and Melick case containing letters (both English and Eskimo). Found part of an old Whale's carcass on sandspit about 300 yards north of our camp - pretty dry and stringy; much chewed by Foxes. Fox tracks quite numerous around carcass, also Raven tracks. Set five Fox traps around carcass.

Nov. 5 (Sat.) Cloudy morning. A little snow during night. Willow Ptarmigan alighted on stump near tent. Had shot it. Start for Langton Bay today. Put up another letter for St. Johnson on long pole (set upright) north of cache - in case bears break up cache. One White Fox (good, white skin) in ring trap at old carcass, caught by one hind foot. At same place another White Fox had carried off Ravenuk's big double-spring trap. He followed trail - along shore about 2 miles, then through rough ice to place where we had cached bedding - crossing and re-crossing his own trail, dragging trap by one front foot. Dog finally caught him. This delayed our start until 10[30] a.m. but dogs travelled well after two days rest, and we camped a little after 3[00] p.m. on flat land at mouth of first river (from Cape Lyon). Little wood on sandspit, but scattered sticks some distance (200-300 yds). on the flat land. Set one trap on little knoll. Skinned Fox in evening. Both foxes very poor.

M.T. 10°
10° at 7[30] a.m.
Cloudy
Lt. SE wind
-7° at 4 p.m.
Calm most of day, hardly a breath of air stirring
Clear after 9 p.m.

White Fox

Fox

♀ Arctic Fox. L. 802 mm. T. 270 mm. H.F. 130 mm.

Nov. 6 (Saturday). Clear all day. Scarcely a breath of wind. Very light
M.T. -16° SO wind for a little while in afternoon. On trail 9¾ a.m.
-9° at 8 a.m. Travelled steadily until 5¾ p.m., nearly an hour after
-7 at 6 p.m. dark. Finally found wood on sandspit west of first
Clear large river (i.e. 1st river from S. side). Flat land and
Calm shoals - extending 5 to mi. across river mouth - Nothing
in traps this morning, and no game seen today. A
few Fox tracks and one Wolverine track seen on ice

Nov. 7 (Monday). Cloudy - some fog in early morning. Almost no
M.T. -13° wind occasionally a breath stirring from SE. Clear
-10° at 7 a.m. after 9¼ a.m. Calm all day. Travelled from 9.15 a.m. to
Cloudy. 3:30 p.m., and made camp at extreme western corner of
Calm Darnley Bay, at the foot of the portage across mountain.
little work here - one large stick and one smaller one.
Brought a few pieces of wood across from old rack near
river on S. side of bay. Saw two Willow Ptarmigan on trail
in forenoon, one killed; three seen in afternoon near old river
and two more killed. No open water seen today, and we
were able to shorten the load, by cutting across outside
the old trail in many places.

Nov. 8 (Tues). Cloudy all day. No wind. On trail 9.15 a.m. Reached
M.T. -15. summit of divide in 40 minutes, and big lake on west side
+4 at 8 a.m. in 10 min more. Lake about 4 mi long. Big fiord plainly
Cloudy- visible from hills, but not from lake level. Next lake (30 yds. portage)
Calm. about 3 mi. long. Reached Caribou cache at 12 m. Cache un-
molested. Eskimo had one white Fox in trap at cache.
Foxes had walked over my trap but failed to spring it.
Trap seemed to be frozen up. Many Fox tracks on flat land
also recent tracks of a band of six Caribou which had
gone north and later crossed trail going westward on
the run. Course more southerly after this. Ground rough,

Nov. 8 (Wed) and hummocky, and load very heavy. Travelled most of the time on large and small lakes (all connected and water running open at outlets). Reached camp of Oct. 28th at 3.30 p.m. A small wood cache here. Ice on lake much thicker than before — now about 15 inches. Water 6 ft. deep 75 yds. from shore. Set baited hooks for lake trout (nothing caught).

Nov. 9 (Wed) Cloudy all day, but very little fog. Fairly strong NE wind. On trail 8.50 a.m. Crossed high ridge of hills and descended a little creek leading into Eastern end of Langton Bay. Reached wood cache at 10.10 a.m. Just before reaching mouth of creek saw tracks (not more than a day or two old) of ten or twelve Caribou crossing creek and heading towards flat land around Okak (the principal fishing place). Reached Langton Bay house at 2.00 p.m., the fifth day out from Cape Lyon. Crossed from W. side Dunley Bay to W. side of Langton Bay in "one hop" — a little less than twelve hours travelling time, with heavy sled and only three dogs.

M.T. +6°
+8° at 8 a.m.
Cloudy.
NE wind.

Caribou

While we were gone Palaiyuk caught eleven White Foxes and one Wolf in traps at whale carcass. Some of the foxes were in my traps. The Wolf (a young animal) was caught in a small single-spring fox trap. He also shot one Hare.

Nov. 10 (Thurs). Cloudy all day. Very light SE, S, and SW wind in forenoon, variable. Stronger and steady SE in afternoon. Iavinuk hauled a load of wood from W. sandspit, while I cleaned skulls and bones. Palaiyuk went to look at traps on whale carcass, but came back about 11 a.m. with report that he had seen a White Bear feeding on carcass. Iler. and I went back with him. Wind very light but we managed to get within 100 yds. under cover of sandspit. Only one Bear had been seen, a small one, busily digging away there.

M.T. 0°
+10° at 8 a.m.
7° at 5 p.m.
Cloudy
SE wind.

Plow Bluff

Nov. 10 (Thurs) As he started to move off, another much larger Bear, followed by a third small one, emerged from behind some rough ice cakes. General fusillade for two or three minutes. Large Bear and one small one fell nearly in their tracks, while the other started to run away. He seemed puzzled which way to go, and often stopped. One bullet made him stand up on hind legs and growl, another made him spin around and collapse. The old Bear was still living, with shoulder crushed and two bullets through heart, but able to raise head. One bullet more through neck at close range failed to affect her, as I put another into heart. This was a female Bear with two yearling cubs (one male and one female), all rather poor in flesh, the mother especially. Mammary glands contained milk. Tracks of Bear led to Caribou from westward. Skinned all three, and spread out meat to freeze over night. If a Bear is left unskinned over night, it becomes tainted, even in the coldest weather.

Polar Bears.

500. ♀ Polar Bear ad. L. 6ft. 8 in. Height at shoulders 38 in.
Shoulder joint to hip joint 34 in

501. ♂ Polar Bear juv. L. 5ft. 4½ in. Ht. 29" Sh. to hip. 26"

502 ♀ " " " L. 45" " 28" " 19".

Polaiyuk snared one Willow Ptarmigan and shot another. Both Ptarmigan were somewhat fat.

Nov. 11 (Fri) Clear, bright day. Wind strong from SE in morning but moderated before noon. Calm evening.
M.T +4
+9 at 12 M.
Clear a.m.
Wind SE.

Ilavuinik and Polaiyuk hauled in Bear meat ice house, and skins to store house. I finished cleaning up Caribou skin and bones, and repaired some tools.

11

Nov. 12 (Sat.)
M. T. +1°
+6° at 8 a.m.
Clear
Wind NW.

Brisk NW wind in morning. Wind died down about noon. Went out and took in all traps from whale carcass. Two Fox in Paluiguk's traps and one in Slaviuk's. Latter trap was set in bloody snow where big Bear was killed. One more Fox seen running on the ice. Came home across hills. Flushed a single Ptarmigan near edge of sandspit, and a flock of 12 or 15 from patch of little willows in ravine.

Fox

Nov. 13 (Sun.)
M. T. −5°
0° at 7 a.m.
−17 at 4 p.m.
Clear.
Wind SW-SE.

Clear day. Light SW wind in morning, calm afternoon, light SE wind in evening. Closed up Langton Bay house and started for Okak (the terminal fishing place N of Whales Harbor). While passing along base of low bluffs about 2 mi. N of Harbor, Polar Bear was seen walking along top of bluff about 60 yds. ahead. Wind was behind us, but we moved ahead. Looking again from top of bluff, Bear appeared to be eating grass or moss. A little further on we looked again and saw the Bear on ice, and another with it (one large, one ca. 2-yr. old). Bears soon smelled us, snuffed to windward for some time, then suddenly bolted leeward towards rough ice. We followed a mile or two, and Slaviuk an hour longer, but Bears kept going west pretty steadily alternately trotting and walking; occasionally stopping. Crunching of snow underfoot gave warning before he could get within range in rough ice. Several fresh Fox tracks seen and a few old Bear tracks. Made camp at dark on small wooded sandspit, having travelled only 3–4 mi., but we could not reach fishing place tonight.

Polar Bear

Nov. 14 (Mon.) Cloudy all day. Light snow in afternoon. On trail 7³⁰ a.m. and reached Okat about 12 M. Stopped about two miles
M.T. -19° back to dig out some wood from old camp. Set deadfall
-4° at 7 a.m. before breaking camp in morning. Began fishing
Cloudy. about 2 p.m. but caught only 15 tomcod in about
+5° at 1 p.m. two hours. Female tomcod have small roe now.
Wind S.S.E. Slavimiut was feeling somewhat "blue" this morning,

Nov. 15 (Tues.) because he had dreamed of seeing a "turniat", a sort of spirit which he could not describe well; said it was something like a man, with erect hair and protruding eyes. He said to see such an apparition was formerly considered a sure sign of death. He is half-ashamed of the belief now, but partially credits it.

Nov. 15 (Tues.) Cloudy morning. Tent nearly burned up this morning.
M.T. 0° Pan of deer fat in oven caught fire, was hauled out of
+10° at 7 a.m. flour bin and flared up high. Somebody threw water on it
+10° at 3 p.m. scattering burning grease. Damages = hole in tent, bear-
Cloudy. skin door singed, fish line burned up, and some clothing
Wind SW scorched a little. Fished all day - about 50 Tomcod caught by all hands - about two dishpanfuls. Also two small yellow-spotted Sculpin.

Nov. 16 (Wed.) Very light snowfall
M.T. -6° Slight fog in morning, Clear after 10 a.m. Very light
-6° at 8 am SE wind. Total eclipse of moon, beginning about
-6° at 3 p.m. 2³⁰ p.m., shortly after sundown. Total eclipse by 3³⁰ p.m.
Clear. Full moon today 7²⁷ p.m. (almanac). Slavimiut said
Wind SE. had seen an eclipse before, while returning fr. hunting on Richard Island, with some other men. When moon had disappeared they were scared. Went to point about 2 mi. east, to lay fishing. Deep water (3 fathoms plus) 50 yds. from shore. Caught only four tomcod. No game seen from hilltop. Bajard and girl at Camp caught about forty tomcod.

Nov. 17 (Thurs.) Clear. Cold. Very light SE wind. Small flock of ptarmigan flew over camp in morning going east. Ikey and I went about 3 mi. NE to bottom of small bay at mouth of small river leading from lakes inland. Old tent here, and ruins (earth heaps) of two old houses. Ikey thought there must be a fishing place here, as last summer he found in houses, many deer-horn ice picks, musk-ox horn scoops, bone fish hook with copper barb, etc. Caught 47 tomcod and 2½ gallon cod here, and one codfish (U'ra'viK), weighing about 2 lbs. in 6-7 ft. water. Water here fresh or only very slightly brackish. Palaiyuk baited head of wood, and found nothing in his fox traps – not even fox tracks. About 20 tomcod (O'KaX) caught near camp.

Yesterday, Ipaslak hooked up a species of Ascidian from bottom (about 2 fathoms); about ¾ inch in diameter, stemmed brown, with rough surface.

Nov. 18 (Fri.). Clear, bright day. A little cloudy after 4 p.m. M.T. -21° Fished all day at same place as yesterday, and caught -11° at 8 a.m. about 75 tomcod, but no Cesefish. Caught one very large Clear tomcod, about 18 in. long, and weighing as much as any Calm. two caught heretofore. Fresh fox tracks around fishing place this morning (large tracks, Red or Black Fox).

Nov. 19 (Sat.). Thick fog in morning. Light ENE wind. Started out M.T. -21° towards long sandspit about 8:30 a.m. Walked about 2 hrs. -14° at 12 M. but fog showed no signs of clearing up, and we returned. -20 at 3 p.m. Fished in afternoon, catching about 30 tomcod and one Foggy or two Sculpins. Palaiyuk found one White Fox in his Wind ENE deadfall trap, but another fox had eaten part of one Var. p.m. hind quarter. Sky cleared partially after 2 p.m., and evening was bright and clear.

Nov. 20 (Sun.) Clear, bright day. Very cold. Very light air stirring, variable, mostly from SW. Went about 2-3 miles toward Langton Bay Harbor, and tried fishing at several places, rocky old tracks (shoal) and near island about 1 mi. W. (Water 1-1½ fath.). Caught only 5 tomcod and 2 Sculpin. Caught 6 more tomcod near camp. Other people found Pelagyut caught White Fox in deadfall trap. Throat, &c., stained yellow by feeding on blubber.

M.T. -26°
-25° at 8 a.m.
-25 at 3 p.m.
Clear.
Calm.

Nov. 21 (Mon.) Sky overcast with clouds in early morning, but soon cleared. Warmer in morning, but cold again in afternoon. Moved camp from Okak fishing place to Langton Bay house, leaving Okak at 8:30 a.m., and getting to house about 1:30 p.m. Picked up a few traps enroute, but no Foxes. Tracks few and far between, but more numerous near Harbor.

M.T. -28°
+4° at 8 a.m.
-13° at 3 p.m.
Clear.
Calm.

Nov. 22 (Tues.) A very little light, flaky snow fell during the morning. Cloudy all day. Slavinit, Palaiyut and I went to whale carcass, and set twenty Fox and Wolf traps. Fresh wolf tracks 300 yds. from house, around ice house and at carcass. Snow for 100 yds around carcass covered with a maze of fresh Fox tracks. Heard Wolf howling at intervals all morning. Saw flock of about a dozen Ptarmigan near ice house. Palaiyut shot at a pure white Snowy Owl on ice, and I afterward took two long range shots at the Owl on bluffs, but missed. Found that mice were playing havoc with Caribou skins in storehouse, chewing off hair in patches. Put all good Caribou skins (24) and 44 Fox skins, and three packs of dried Caribou fat in old iron water tank on sandspit. Tank has iron manhole cover and is Fox, Wolverine, and Mouse proof. Palaiyut found remains of two Ptarmigan caught in his snares, but eaten by Foxes.

M.T. -15°
+4° at 8 a.m.
+14° at 1 p.m.
Cloudy. Snow.
Lt. S½ wind.

Nov. 23 (Wed.). Cloudy all day. Very light SW wind during the day.
M.T. +4°. Snow SW after 8 p.m. Went to look at traps & carcass.
+8° at 8 a.m. Nothing in my traps, but Slavinik and Pal. had two White
Cloudy. Foxes each. Skins all dingy and greasy, and two with
+9° at 3 p.m. considerable blush fur showing on tails. Made two
photographic exposures, although day was rather dark.
225 & 2. White Fox in trap. 8–1 sec. Cloudy. 10.30 a.m.
226 & 3. Little girl Nooshak. 16–2 sec. Cloudy. 12.30 a.m.
Finished skinning out feet, ears, etc. of largest Polar Bear.

Nov. 24 (Thurs.). Light snow. Cloudy morning. Partially clear in afternoon. Light SW wind.
M.T. –4°. Six White Foxes in traps & carcass – Slavinik 2, Palaiyut 2,
+4° at 8 a.m. Nooshak 2, none in my traps. Saw several Ptarmigan
Cloudy. near ice house. Fox broke Chain of one of Slav's traps, but he
Lt. SW wind followed trail and killed Fox about a mile away. Hauled
home load of wood, and cleaned Cub bear skin.

Nov. 25 (Fri.). Cloudy, light snow. SE wind. Snow in evening. Looked
M.T. –3°. at traps in morning. Slavinik one White Fox, Nooshak one.
+13° at 8 a.m. Saw a few Ptarmigan near ice house. Fed Ptarmigan skin
SE wind. Snow. the afternoon. Slavinik says that Kutakak (Baillie Island)
told him that, according to tradition, there were Eskimo
villages (at particular ages) both at Langton Bay and on Horton
River sandspit. The people lived by whaling; caught many
Whales inside Langton Bay; tried to kill only small Whales,
and towed carcasses ashore to whaling harbor sandspit.
Large numbers of small Bowhead skulls are still on the
sandspit. Langton Bay people are said to have come by sled
to Horton River, and Baillie Island people to Horton River,
where parties from each place sometimes met, but neither
people ever went further. Kutakak says that the Horton
River tribe died out (all) one winter, after feeding for a long time
on what they supposed was the carcass of a

Nov. 25 (Fri.) Bowhead Whale which they found covered with snow. The carcass had no "muktuk" (black-skin) but people suspected nothing until they found a (tap'si) bill around the middle. Then they knew that they had been Eating an ʔNUK pi'shu'gu nuk (gigantic man), and everybody died. Nobody saw the head of the giant.

Nov. 26 (Sat.)
M.T. +6°
+7° at 12 M.
Cloudy.
Wind SW.

About an inch of snow fell during the night, and strong SW wind drifted snow over most of our traps. Ilavinik caught one White Fox at carcass. Wind lighter in afternoon. Finished skinning out ears, lips and feet of Polar Bear. Skin of old she-bear did not have much fat, but both Cubs had some blubber. Ilavinik says best way to clean Bear skins (flesh side) is to spread skins (hair side down) on ice or flat ground to freeze stiff, then remove fat and tissue with knife or scraper.

Nov. 27 (Sun.)
M.T. 0°
0° at 8 a.m.
−2° at 1 p.m.
Foggy.
Wind SW

Foggy, cloudy morning. Wind SW. Snow drifted a bit during the night. Sky cleared a bit in afternoon. Cloudy Evening. Palaiyuk hauled a load of wood from Sandspit. Ilav. and I went to look at traps — one White Fox in my traps two in Palaiyuk's. Foxes were all very fat.
#489. ♂ Arctic Fox. L. 810. T. 315. H.F. 140.
No signs of open water near since we returned from Cape Lyon.

Nov. 28 (Mon.)
M.T. −2°
+3° at 8:30 a.m.
Cloudy.
Wind SW

Cloudy. Fairly strong SW. wind. Visited traps, and hauled a sled load of fresh water ice from ice pond. Two White Foxes in Palaiyuk's traps (one deadfall), and one in Washut's. Palaiyuk found one Willow Ptarmigan in his snares. Ptarmigan somewhat fat. #491. ♂ Lagopus lagopus.

Nov. 29 (Tues.)
M.T. −7°
+8 at 9 a.m.
+4 at 1 p.m.

Cloudy. Strong SW wind and snow drifting thickly. Ilavinik hauled a load of wood from point SE of town. Palaiyuk and I visited traps at carcass. Three White

Nov. 29 (Tues) — foxes — one Hew., one Pal, and one mink. Some of traps deeply buried by drifting snow. One Willow Ptarmigan in net near ice house — completely enmeshed, but alive. A flock of about a dozen Ptarmigan near net. Cut some small willows in creek valley and stuck them in snow around net to make place look more attractive to birds. Ground here has been pretty thoroughly scratched over by Ptarmigan looking for buds of willow shrubs.

*496. ♂ Arctic Fox. L. 827 - T. 318 - Hf. 148.
*497. ♂ Willow Ptarmigan (Lagopus lagopus).

Nov. 30 (Wed.) M.T. — 3°. +6° at 9 a.m. +7° at 2 p.m. Pat. clear. SW gale. Sky clear during night, but partially overcast with clouds during the day. Wind blowing hard all night, and very hard in forenoon. Hawkins and I went to look at traps. Snow drifting in blinding clouds, and we could hardly see to face it, although day was not cold. Wind had uncovered nearly all traps, and we were unable to reset them well, as fresh snow was immediately blown off. One blue Fox in my trap, two in Hawkins, one in Horsbeck's and one in Palaigutes deadfall. One small flock of Ptarmigan seen near End of sandspit, near bluffs. Gale increased steadily during afternoon, and weather was exceedingly thick in evening.

*498. ♀ Arctic Fox. L. 840; T. 308 Hf. 143 m.m.

Dec. 1. (Thurs) Colder — About -10° SW gale. Colder than yesterday. Fierce S.W. blizzard blowing all night, and continuing this morning. Sky has cleared up more, but snow is drifting in blinding clouds. Wind blew down and broke our last thermometer (Minimum Thermometer *87425, Negretti & Zambra, London — belonging to Dominion Meteorological Office, Toronto, Canada). Wind moderated a little in afternoon. Snow on sandspit around house and icy Bay, are grayish brown from sand and dust blown down from the hills.

December 2 (Fri.). Warmer. Light SW wind. A little "karnik" (falling snow) during the night. Cloudy morning.
Warmer
Mild SW.
Cloudy.
One White Fox in one of my traps at carcass, others from. Many Fox tracks around carcass - some going away to leeward. Nearly all traps uncovered, some traps standing back upon a little mound of packed snow, the surrounding loose snow having blown away. Dug out and re-set Palaigak's 22 traps which was nearly buried in snowdrift. #499.3 Arctic Ex. 875-340-153

Dec. 3 (Sat.). Rather warm. Wind blowing a blinding gale from SW. Went to visit traps at Whale's carcass. One White Fox in Palaigak's traps. We were unable to reset traps well, on account of drifting snow.
Warm
SW gale.
A little afternoon Mr. V. Stefansson arrived, in company with Nat Kushlak ("Billy") and "Johnny" Sanderson, two Bear Lake Indian half breed. They had started with toboggan and four dogs from their camp on branch of Dease River near Great Bear Lake. They had started Nov. 6th, crossed to Horton River, descended Horton River, and crossed Smoky Mts. to Langton Bay, skirting the coast a little west of here. Stefansson's party had left Cape Lyon Sept. 26-7, followed coast East, reached Victoria Land Nov. 17th, found many Eskimos, later ascended Coppermine River, and spent summer around north side of Great Bear Lake. They had killed plenty of Seals, Nyaut and Bears along coast in the Spring, and plenty of Caribou inland during the summer, and had suffered no great privations. Messrs. C.D. McArthur and J. Hawley are wintering near site of old Fort Confidence, on north side of Bear Lake. Tanannirk and Paningablak remained at the camp on Dease River.

Dec. 4 (Sun.). Cloudy. Wind SW. fairly strong, and snow drifting somewhat. Remained at home all day with Stefansson to discuss matters pertaining to trip Eastward again. Natkusiak went to look at traps, but found no Foxes, although the traps had been picked off a Fox's toe. (10 mi. SE of mouth of Dease River)

Cloudy. Wind SW. Warmer.

Stefansson brought along a piece of back fat from Caribou buck killed by him in October near Great Bear Lake. Back fat was 72 mm (2 7/8 in.) thick. Four bucks of similar fatness were killed by him on same day (one with fat appreciably thicker).

Caribou

Huntley Record — Stefansson started from Coppermine, packing to Great Bear Lake, taking sixty Mannlicher-Schoenauer 6.5 mm cartridges. Killed 42 Caribou, 1 yearling Barren Ground Bear, 3 Wolves, and one Wolverine. One cartridge left. Three shots were used on one Wolf, and two on the Wolverine.

Bear

Dec. 5 (Mon.). Clear morning. Stars shining brightly at 6 a.m. Light SW wind. Cloudy after 9 a.m. and wind steadily increased and was blowing a howling gale in afternoon and evening. Two White Foxes in traps at Carcass — one Male, one Female.

Clear. Light SW wind.

Fox

Mr. Stefansson particularly asked me to make an Entry of Natkusiak's story as he travelled here saying that it was very important to make a record of it. — V.M.A.

Natkusiak told me that many Eskimos on Victoria Land look like "Kablunas", many have light-colored hair and beards and moustaches, beards about the same color as mine, light reddish brown; many have "light" eyes, he says, the same color as Tiriganiak (White Fox), i.e., light brown with a grayish cast. He said Coppermine River Eskimos were big men, some as tall as Stefansson (about 6 ft.). Stefansson says that when Billy first saw Victoria Land Eskimos he insisted that they were not Eskimos, but white foc's'l sailors (i.e. from his whaling observations, poorly dressed white men, not dressed in good Eskimo clothing, as an Umiálik (a captain, officer, master, or "Head man") would be). Said he could understand much of language of people east of here

Dec. 6 (Tues). Cloudy morning. Sky partially cleared later in the day. Lt. SW wind. Light SW wind. Spent daylight hours in getting out sled. Pretty clear. Ready for trip to Great Bear Lake. Took White Fox in traps — one Palaigut's and one "Johnny's."

Dec. 7 (Wed). Cloudy. Wind SW all day, but backed to NE after 6 o'p.m. One White Fox in Billy's trap. Natives hauled load of wood, and load of fresh water ice from ice pond. Stefansson writing all day, while I developed some photographic negatives. Wind NE for about 2 hrs then hauled to NW.

Dec. 8 (Thurs). Colder. Cloudy. Fairly strong SW wind. Sky Cloudy. Wind S.W. Colder. Clear in afternoon and evening. Spent day writing and packing up supplies and specimens. Traps not attended today. Finished report to Am. Mus. of Natural History.

Dec. 9 (Fri.). Clear day. Light SW wind. Akvinik and Johnny took a sled with most of our heaviest stuff up to the top of the mountains. They returned about 4 o'p.m. reporting that wind was blowing strong on the mountain side and top. Three White Foxes in Palaigut's traps, and in Johnny's. Wind strong at Clear. Lt. SW wind. Cold. in evening.

Dec. 10 (Sat.) Clear morning. Fairly strong SW wind. Cold. Clear. SW wind strong. Snow in evening. Wrote summary, and sketch map for Geological Survey of Canada, embodying some notes on southern portion of Liverpool Bay, and the two mouths of the Anderson River; also regarding coast line of Darnley Bay, and rivers flowing into Darnley Bay. Palaigut went out and brought in four of my wolf traps in preparation for start to Great Bear Lake tomorrow. Also loaded up sled. Palaigut caught one White Fox. Wind increased the day a regular SW blizzard. Snow falling in evening.

Dec. 11 (Sun). Cloudy morning. Light snow falling at 6th a.m. Wind SE.
Cloudy
Wind SE.
Lt. snow.
Wind SE-SW-SE strongei
Warm
Start to day for Great Bear Lake, with Mr. V. Stefansson Natkusiak ("Billy") Eskimo, and "Johnny" Sandelson (Slavey Indian half breed). Go across Melville Hills range to Horton River, up river, across Barren Grounds to Great Bear Lake and Dease River. Start with one long sled (Johnny's), one toboggan, and Yukon sled, nine dogs. Shall carry toboggan on top of sled across mountains. Grub taken - one sack flour, one sack Cornmeal rolls, rolls rice rolls sugar, flour sack full of blubber, 100 + whale blubber, and some dried Caribou meat and fat; plenty of ammunition and other supplies. Stefansson also had caches of Caribou meat up the river. Expect trip to consume twenty days.
Kaprinik, Mamayauk, Palenjuk, and Hoosluk remain at Langton Bay to look after goods, and trap as many foxes as possible.
Wind steadily increased in strength during forenoon, and we did not start out. Wind lowered in afternoon, and was more variable.

Dec. 12 (Mon). Wind hauled to SW during night and snow was
Cloudy.
SW blizzard
NW p.m.
Cold
Clear eve.
drifting in a thick blizzard at 6:00 a.m. Wind a little less strong about noon, and hauled to NW later in afternoon. Sky clear in afternoon and evening but snow drifting thickly along ground. Weather a bit too ragged to start out on trail today, although if we had started, I suppose we could have moved along in spite of storm. Very cold. Spent day writing letters - hope to get some out by Mackenzie River writer mail, from Ft. Norman. "The mail is supposed to get outside" in April.

Dec. 13 (Tues). Clear morning. Light NW wind. Start today for Great Bear Lake

Clear
Light NW.

Expense Account – summer of 1910.

Cr. H.B. Co. Letter of Credit #213. $600.00

Dr.

Mar. 8, '09	Capt. F. Holtz.	groceries	6.00
June 30, 1910.	H.B. Co.	dried fish	5.00
July 3. "	Mr. L. Ware, Ft. McPherson,	groceries	9.00
Aug. 7. "	Natives, Herschel Island,	labor	3.00
Aug. 30. "	Capt. F. Holtz Sch. "Rose H."	molasses	2.00
July 16. "	H.B. Co. Ft. McPherson,	goods bot	175.14
" 18 "	" " "	" "	3.00
" 16. "	" "	frt goods from Alh. Landing.	74.52
" 14. "	S.S. Herman, Capt. A.H. Bodfish,	goods bot	149.50
			$227.16

Dec. 7. Balance, Cash on hand $172.84

Specimens collected and listed in this book.

No.					
404.	♀	Larus ~~delawarensis~~ brachyrhynchus.	Kangiarnik.	E. Mack. Delta.	June 7, 1910
405.	♀	~~Himantopus~~ Passercutus Sandwichensis ~~sanctus~~ alaudinus.	"	"	" 8, "
406.		Stercorarius pomarinus	"	"	" 8, "
407.	♀	~~Glyphya collaris~~ Phasianella zonaria.	"	"	" 9, "
408.	♂	Lagopus rupestris.	"	"	" 9, "
409.	♀	" "	"	"	" 9, "
410.	♀	Stercorarius pomarinus.	"	"	" 9, "
411.	♀	Branta nigricans.	"	"	" 7, "
412.	♂	Dicrostonyx sp.	"	"	" 11, "
413.	♀	Larus ~~glaucus~~ hyperboreus.	"	"	" 13, "
414.	♂	" "	"	"	" 13, "
415.	♂	Somateria ~~v-nigra~~ spectabilis.	Tap'kak.	"	" 15, "
416.	♀	Xema sabinii	"	"	" 15, "
417.	♂	Oidemia perspicillata.	Kangiarnik	"	" 16, "
418.	♂	Dendroica aestiva.	Iglūyō ārʻyuit,	E. of Richard Is.	" 20, "
419.		Dragon-flies (Odonata) 3 sp.	Ft. McPherson.	N.W.T.	" 30, "
420.	♀	Rabbit (juv.).	Aklavik,	W. br. Mackenzie delta.	July 20, "
421.	♀	~~Hirundo~~ Petrochelidon migratorius jur.	"	"	" " "
422.	♀	Hylocichla naevia. Turdus naevius meruloides	"	"	" " "
423.	♂	Aegialitis semipalmata ad.	"	"	" " "
424.	♀	" " juv.	"	"	" " "
425.	♀	" " "	"	"	" " "
426.	♂	Ampelis garrulus juv.	"	"	" " "
427.	♀	~~Scolecophagus~~ Euphagus carolinus.	"	"	" " "
428.	♀	Thalassarctos maritimus.	Langton Bay,	N.W.T.	Aug. 30, "
429.		Black-skin of Bowhead Whale (fin, fluke, lip, ear).	C. Bathurst.		" "
430.	♂	Mouse	Langton Bay,	N.W.T.	Sept. 4, "
431.	♂	"	"	"	" 4, "
432.	♂	"	"	"	" 5, "
433.	♂	Spermophilus parryi	"	"	" 6, "
434.	♂	" "	"	"	" 7, "
435.	♂	Mouse	"	"	" 7, "
436.	♀	Putorius sp.	"	"	" 8, "

No.								
							Canada.	
437.	♂	Mouse	Langton Bay,	N.W.T.,		Sept.	8.	1910
438.	♂	"	"	"	"	"	9.	"
439.	♂	"	"	"	"	"	"	"
440.	♂	Lagopus rupestris	"	"	"	"	12.	"
441.	♀	" "	"	"	"	"	"	"
442.	♀	Larus ~~glaucus~~ hyperboreus. juv.	"	"	"	"	"	"
443.	♀	" ~~brachyrhynchus~~ glaucescens. juv.	"	"	"	"	"	"
444.	♀	Corvus corax principalis	"	"	"	"	"	"
445.	♂	Mouse.	"	"	"	"	13.	"
446.	♂	"	"	"	"	"	"	"
447.	♂	Lagopus rupestris.	"	"	"	"	14.	"
448.	♀	" "	"	"	"	"	"	"
449.	♂	Mouse	"	"	"	"	"	"
450.	♂	"	"	"	"	"	"	"
451.	♂	"	"	"	"	"	15.	"
452.	♂	"	"	"	"	"	"	"
453.	♂	"	"	"	"	"	"	"
454.	♂	"	"	"	"	"	"	"
455	♀	Lagopus rupestris	"	"	"	"	16.	"
~~456~~	♀	" "	"	"	"	"	"	"
457.	♂	Mouse	"	"	"	"	18.	"
458.	♀	Arctic Hare	"	"	"	"	"	"
459.	♂	Garia adamsii (Skinned by Pataiguk.)	"	"	"	June	22.	"
460.		Bumble-bees, etc. (in alcohol).	"	"	"	"		"
461.		Gnats, etc. " "	"	"	"	"		"
462		Beetles, spiders, etc. "	"	"	"	"		"
463.		~~Flies~~, etc. " "	"	"	"	"		"
464.		Beetles, etc. " "	E. branch Mackenzie delta, N.W.T.					"
465.	♂	Lagopus rupestris	Langton Bay,	N.W.T.		Sept.	20.	"
466.	♂	" "	"	"	"	"	"	"
467.	♀	" "	"	"	"	"	"	"
468.	♂	Barren Ground Caribou	Langton Bay (15 mi. S.)	N.W.T.		Sept.	22.	"
469.	♀	" " "	"	"	"	"	"	"

No				Canada.
	470.	♂ Dicrostonyx sp.	Langton Bay. (15 mi. S) N.W.T.	Sept. 22, 1910.
	471.	♂ Putorius "	" " " "	" 24, "
	472.	♂ Dicrostonyx "	" " " "	" 25, "
	473.	♀ Ursus richardsonii	Horton River	" " 28, "
	474.	♀ Perisoreus canadensis canadensis	" " "	Oct. 5, "
	475.	♀ Red Fox	" " "	" 8, "
	476.	♂ " "	" " "	" 11, "
	477.	♀ Wolf (Tobory) jur.	Langton Bay. "	" 14, "
	478.	♀ Spermophilus parryi.	Horton River, "	" 6, "
	479.	♂ Mouse	Langton Bay. "	" 20, "
	480.	♂ "	" " "	" 20, "
	481.	♂ "	" " "	" 21, "
	482.	♂ "	" " "	" " "
	483.	♂ Corvus corax principalis	" " "	" 22, "
	484.	♀ Ursus richardsonii (Skinned by Illus.) (juv)	" " "	April 28 "
	485.	♂ " " " [skull] (ad.) V.S.	" " "	Sept. 12, 1909.
	486.	♂ Barren Ground Caribou.	West side Darnley Bay. "	Oct. 29, 1910.
	487.	Bearded Seal (Ugyuk) embryo.	Cape Lyon "	Nov. 3, "
	488.	♀ Arctic Fox	" " "	" 5, "
	489.	♂ " "	Langton Bay, "	" 27, "
	490.	Sculpins (4). "Kanaiyuk"	" "	" 15-20, "
	491.	♂ Lagopus lagopus	" " "	" 28, "
	492.	Crabs (hard-shelled)	" " "	" 26, "
	493.	" " "	" " "	" 27, "
	494.	Clam-shells	" " "	" 26, "
	495.	Mussel-shells	" " "	" " "
	496.	♂ Arctic Fox.	" " "	" 29, "
	497.	♂ Lagopus lagopus	" " "	" " "
	498.	♀ Arctic Fox	" " "	" 30, "
	499.	♂ Arctic Fox.	" " "	Dec. 2, "
	500.	♀ Polar Bear. ad.	" " "	Nov. 10. "
	501.	♂ " " jun.	" " "	" " "
	502.	♀ " " "	" " "	" " "

WEATHER RECORDS.

Day.	JUNE. 1910. Minimum Temp'ture.	Maximum recorded Temp.	Prevailing Wind.	JULY. 1910. Min. Temp	Max. rec'd Temp.	Prevailing Wind.	AUGUST. 1910. Min. Temp.	Max. rec. Temp.	Prevailing Wind.
1.	+30°F.	+35°	SW. Cloudy 4 a.m. Clear p.m.						
2.	+28°	+34°	NE Clear						
3.	+33°	+45°	SW-W. Clear						
4.	+31°	+36°	NE Cloudy.						
5.	+29°	+40°	NE Cloudy Heavy Storm						
6.	+30°	+50 at 10 a.m.	NW. Cloudy a.m. Clear p.m.						
7.	+24°	+45 12M.	NE. Clear.						
8.	+31°	+45° 7 a.m.	NE. Clear a.m.						
9.	+38°	+33° 10 p.m.	NE. Cloudy a.m. Snow p.m.						
10.	+32°	+33.	NE Clear						
11.	+32°	+55°	NW. Clear						
12.	+29°	+43	NE Cloudy.						
13.	+33°	+45°	Calm. Fog.						
14.	Warmer		NE. Hazy & Sun Cloudy p.m.						
15.	Warmer.		S-SE. Cloudy a.m. Clear p.m.						
16.	Warm.		ESE. NE. Clear						
17.	"	+52 6 p.m.	NE. SW. Clear.						
18.	"		SW. Clear						
19.	"		SE Clear						
20.	"		SE a.m. SW p.m. Cloudy.						
21.	Hot		NE. Clear.						
22.	"		NW. Clear Rain 11 p.m.						
23.	Warm		NW Cloudy.						
24.	Very hot.		NE. Cloudy a.m. Clear p.m.						
25.	Hot		NE. Clear Cloudy						
26.	"		W-SW Clear Cloudy						
27.	Cooler		NW. Rain a.m. Clear 6 p.m. Clear a.m.						
28.	Hot.		NE p.m. Clear.						
29.	Hot		SE. Clear.						
30.	Very hot.		NE. Clear						
31.									

WEATHER RECORDS.

Day.	SEPTEMBER, 1910. Min. Temp.	Max. Rec. Temp.	Prevailing Wind.	OCTOBER, 1910. Min. Temp.	Max. Rec. Temp.	Prevailing Wind.	NOVEMBER, 1910. Min. Temp.	Max. Rec. Temp.	Prevailing Wind.	DECEMBER, 1910. Min. Temp.	Max. Rec. Temp.	Prevailing Wind.
1.												
2.										Thermometer broken today.		SW. Blizzard.
3.												
4.												
5.												
6.												
7.												
8.												
9.												
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30.												
31.												

Positions and variation of Compass. From Chart. opp. p. 292. "In Search of a Polar Continent | 1905-1907 | By | Alfred H. Harrison | With illustrations and a map | London | Edward Arnold | Publisher to the India Office | 1908 | [All rights reserved]."

Place.	N. Lat.	W. Long.	Mag. Var. E.
Mouth of Arct. Red R.	67° 26' 00"	134° 4' 00"	46° 00"
Fort MacPherson.	67 25 47	135 30 00	45° 30°
South of Peels R.	67 41 00	134 58 00	45 40.

East Branch Mackenzie.

Point Separation	67° 36° 00"	
Camp 5 Lob sticks	67 46 00	134° 5' 00"
SW. point of Richards I.	68° 59' 00	135° 6' 00

Arctic Coast.

Nuvuktok (Warren Point)	69° 58' 30"	131° 30' 00"	(& bottom of deep bay between Pullen & and Warren Pt.
14th Camp [at west of sandspit near big 50' pingok]	69° 43' 00"	132° 18' 00"	50° 22"
Token Point (Immaduk)	69° 36'		46° 44'
Kanyiganiit	69° 22' 00"	133° 44' 00"	47° 36'
Kittigazuit (Richardson's Point Encounter).			

Herschel Island.

"Observation Spot" (half way from Barracks to Flaxman Point).	69° 32' 48"	138° 57' 15"	(long. from Flaxman)
Pauline Cove (Whalers' Harbor).	69° 34' 00"	138° 50' 38"	44° 26"
S.W. Sandspit.	69° 34' 00"		

The Baillie Islands	70° 29' 40"	128° 17' 39"	53°6
SW. Sandspit.	70° 30' 36"	128° 8' 31"	
Old House	70° 35' 18"		52° 15'
NW Corner of Island			

Compass variation

Cape Batturst – Var. 62° E. 1850.
Horton River — 63° 1850.
Cape Parry.